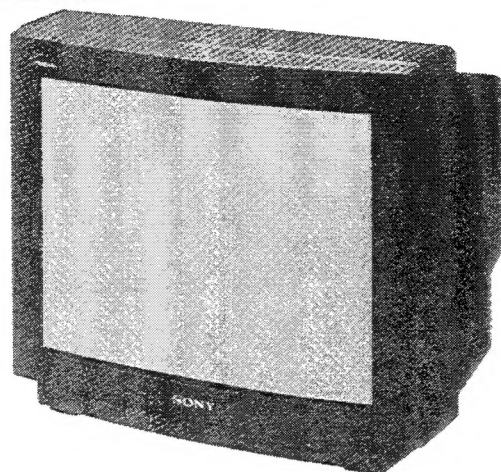


KV-X2141D/X2541D/X2941D

RM-816

SERVICE MANUAL



AEP Model

KV-X2141D

Chassis No. SCC- F07M-A

KV-X2541D

Chassis No. SCC- F07N-A

KV-X2941D

Chassis No. SCC- F07L-A

AE-1C CHASSIS

MODELS OF THE SAME SERIES	
KV-M2531D	KV-E2521D/E2921D
KV-M2521D	KV-A2911D
KV-A2111D/A2511D	KV-C2121D

[KV-X2141D/X2541D/X2941D]

SPECIFICATIONS

Television system. B/G/H
 Colour system. PAL/SECAM, NTSC3.58, NTSC4.43
 Stereo system. GERMAN stereo.
 Channel coverage. VHF: E2-E12 UHF: E21-E69
 CABLE TV (1): S1-S41
 CABLE TV (2): S01-S05, M1-M10, U1-U10.
 Picture tube. Hi-Black Trinitron tube
 Approx. 55 cm [21 inch]
 (Approx. 51 cm picture measured diagonally)
 100°-degree deflection
 Approx. 63 cm [25 inch]
 (Approx. 59 cm picture measured diagonally)
 110°-degree deflection
 Approx. 72 cm [29 inch]
 (Approx. 68 cm picture measured diagonally)
 110°-degree deflection
 Approx. 72 cm [29 inch]
 (Approx. 68 cm picture measured diagonally)
 110°-degree deflection
 Rear Input/Output Sockets : 2/21-pin Euro connector:
 (CENELEC standard) inputs for Audio/Video signals and RGB.
 Outputs for Audio and Video signals.
 2/21-pin Euro connector: inputs
 Audio / Video and S-Video signals.
 Audio output (variable) - phono jacks

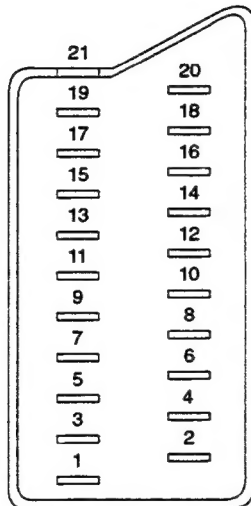
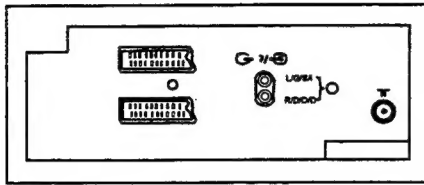
Front Input/Output Sockets. Video input - phono jack.
 Audio inputs - (L,R) phono jacks.
 S-Video input - 4pin DIN.
 Headphone jack output : stereo mini jack.
 Sound output. 15W+15W (Music)
 Power consumption. 87Wh (KV-X2141D)
 101Wh (KV-X2541D)
 109Wh (KV-X2941D)
 Dimensions. Approx. 513 x 438 x 474mm (w/h/d) 21inch
 Approx. 575 x 489 x 480mm (w/h/d) 25inch
 Approx. 656 x 554 x 512mm (w/h/d) 29inch
 Weight. Approx. 25.5kg 21inch
 Approx. 35kg 25 inch
 Approx. 52kg 29inch
 Supplied accessories. RM-816 Remote Commander (1)
 IEC designation R6 batteries (2)
 [RM-816]
 Remote control system infrared control
 Power requirements. 3V dc
 2 batteries IEC designation
 R6 (size AA)
 Dimensions. Approx. 75 x 221 x 23mm (w/h/d)
 Weight. Approx. 230g (including batteries).

Design and specifications are subject to change without notice.



TRINITRON® COLOR TV
SONY®

21 - pin Euro Connector Configuration



21 pin connector (1. 2.)

Pin No	1	2	Signal	Signal level
1	○	○	Audio output B (right)	Standard level : 0.5Vrms Output impedance : less than 1Kohm. *
2	○	○	Audio inout B (right)	Standard level : 0.5Vrms Input impedance : More than 10Kohm. *
3	○	○	Audio output A (left)	Standard level : 0.5Vrms Output impedance : less than 1Kohm. *
4	○	○	Ground (audio)	
5	○	○	Ground (blue)	
6	○	○	Audio input A (left)	Standard level : 0.5Vrms Input impedance : more than 10Kohms. *
7	○	●	Blue input	0.7V +/- 3dB 75ohms positive
8	○	○	Function select (AV control)	High state (9.5 - 12 V) : Part mode Low state (0 - 2 V) : TV mode Input impedance : more than 10Kohms Input capacitance : Less than 2nF
9	○	○	Ground (green)	
10	○	○	Open	
11	○	●	Green	Green signal : 0.7V +/- 3dB 75ohms, positive
12	○	○	Open	
13	○	○	Ground (red)	
14			Ground (blanking)	
15	○	—	Red input	0.7V +/- 3dB, 75ohms, positive
	—	○	(S signal) chroma input	0.3V +/- 3dB, 75ohms, positive
16	○	●	Blanking input (Y's signal)	High state (1 - 3 V) Low state (0 - 0.4 V) Input impedance : 75ohms
17	○	○	Ground (video output)	
18	○	○	Ground (video input)	
19	○	○	Video output	1V +/- 3dB, 75ohms, positive Sync : 0.3V (-3. +10dB)
20	○	—	Video input	1V +/- 3dB, 75ohms, positive Sync : 0.3V (-3. +10dB)
	—	○	Video Input / Y (S signal)	1V +/- 3dB, 75ohms, positive Sync : 0.3V (-3. +10dB)
21	○	○	Common ground (plug shield)	

○ connected ● unconnected (open)

* 20kHz - 20kHz

4 pin connector [E]

Pin No	Signal	Signal level
1	Ground	
2	Ground	
3	Y (S signal) input	1V ± 3db 75ohm, positive Sync 0.3V
4	C (S signal) input	0.3V ± 3db 75ohm positive


TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page</u>	<u>Section</u>	<u>Title</u>	<u>Page</u>
1. GENERAL			4. CIRCUIT ADJUSTMENTS		
1-1.	Switching On/Off	4	4-1.	A Board Adjustment	22
1-2.	Presetting	4	4-2.	B Board Adjustments	22
1-3.	Basic TV Operation	6	4-3.	D Board Adjustments	23
1-4.	Advanced TV Operation	7	4-4.	J1 Board Adjustments	24
1-5.	Teletext Operation	7	4-5.	V Board Adjustment	24
1-6.	Operation Connections/Operations	8	4-6.	Secondary Adjustments	25
1-7.	Additional Information	9			
1-8.	Troubleshooting	10	5. DIAGRAMS		
2. DISASSEMBLY			5-1.	Block Diagram	27
2-1.	Rear Cover Removal	11	5-2.	Circuit Board Location	31
2-2.	Chassis Assembly Removal	11	5-3.	Diagrams and Printed Wiring Boards.	
2-3.	A and J1 Board Removal	12		A Board Printed Wiring	33
2-4.	B and V Board Removal	12		VM Board Printed Wiring	33
2-5.	Service Position	12		J1 Board Printed Wiring	34
2-6-1.	Picture Tube Removal (21 inch)	13		A,F,VM Board Schematic Diagram	35
2-6-2.	Picture Tube Removal (25/29 inch)	14		H1,H2 Board Schematic Diagram	36
3. SET-UP ADJUSTMENTS				J1 Board Schematic Diagram	37
3-1.	Beam Landing (21/25 inch)	15		D Board Schematic Diagram	42
3-2.	Convergence (21/25 inch)	16		D Board Printed Wiring	45
3-3.	Focus	18		B Board Printed Wiring	47
3-4.	Screen (G2) and White Balance	18		B Board Schematic Diagram	49
3-5.	Beam Landing (29 inch)	19		V Board Schematic Diagram	53
3-6.	Convergence (29 inch)	20		C Board Schematic Diagram	55
				IFG Board Schematic Diagram	56
				V, IFG Board Printed Wiring	57
				C Board Printed Wiring	58
			5-4.	Semiconductors	59
			6. EXPLODED VIEWS		
			6-1.	Chassis (21/25 inch)	61
			6-2.	Picture Tube (21/25 inch)	62
			6-3.	Chassis (29 inch)	63
			6-4.	Picture Tube (29 inch)	64
			7. ELECTRICAL PARTS LIST		65

CAUTION

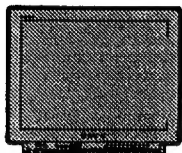
SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE CAP.

SAFETY RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARKED WITH  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.



1-1. Switching on/off

After you have completed the basic preparation your TV is ready to be connected to the mains power supply (220/240V AC, 50Hz).






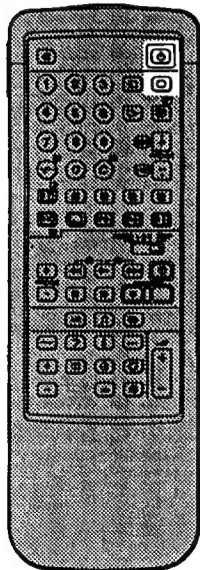
①

How to turn the TV on

Action	Result
Press  on the TV.	The TV will turn on. Note: If the screen remains blank, the TV may be in the standby mode. Press  to switch it on.

How to turn the TV off

A Temporarily	
Press  to enter standby mode.	The TV will be in standby. To return to the TV mode press  .
B Completely	
Press  on the TV.	The TV will turn off.



— 4 —

1-2. Presetting

After you have installed this TV you need to preset TV channels.

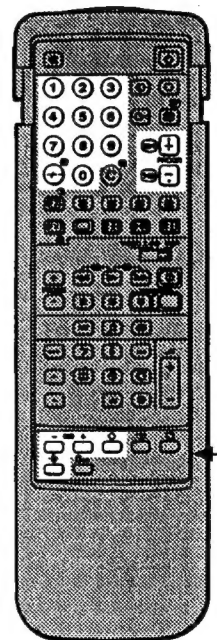
TV stations broadcast their channels at certain frequencies. You must preset these channels to programme numbers on this TV before you can watch the TV programmes.

There are 60 spaces for storing these channels.


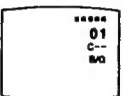
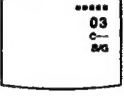




Slide open the full function side of the remote commander to reveal preset buttons.

How to preset channels automatically

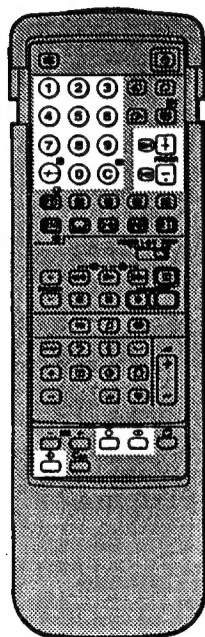
If you are unfamiliar with the channel numbers of the stations you wish to preset, use "How to preset channels automatically". If you are familiar with the channel numbers refer to "How to preset T.V. channels directly".



Note: These buttons should be used in preset mode only.

Action	Result
1 Press  to enter the preset mode.	 The programme number will start flashing.
2 Press PROGR + or - or the number buttons to select the programme number to which you want to preset channels.	 The programme number changes.
3 Press PROGR + or - once to search forward or backward for channels.	 When a channel is tuned in, the search will stop. Note: If you want to skip a channel, press PROGR + or PROGR -.
4 Press  if you want to store the channel which is tuned in. Press  to exit preset mode without storing.	 The channel is now stored and you have returned to TV mode.
5 Repeat steps 1 to 4 to store the other channels.	

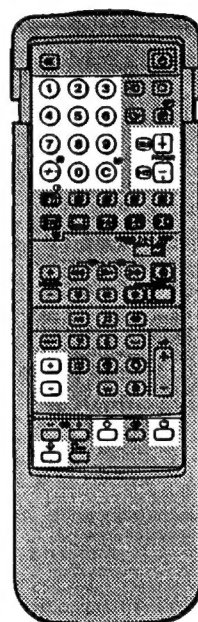
How to preset channels directly



Action	Result
1 Press \rightarrow to enter the preset mode. 	The programme number will start flashing.
2 Press PROGR +/- or the number buttons to select the programme number on which you want to preset a channel. <p>Note To select a double-digit number, use the +/- button. For example, if you want to choose 23, press +/-, 2, and then 3.</p>	The programme number changes.
3 Press C. If you want to select a cable channel, press C twice. 	The indication "C--" ("S--" for a cable channel) starts flashing on the display.
4 Select the channel number with two digits (e.g. 04) by pressing the number buttons. <p>Note Press the second number within 5 seconds after the first one, otherwise the operation will be cancelled.</p>	The channel number changes. <p>Note If you have made a mistake the letter "X" will appear. Repeat step 4 again.</p>
5 Press \diamond to store the channel which is tuned in. Press \rightarrow to exit the preset mode without storing. 	The channel is now stored and you have returned to TV mode.
Repeat steps 1 to 5 to store the other channels.	

How to Name a Station

You can use up to five characters to "name" a channel or station (i.e. BBC1).



Action	Result
1 Select a programme number you want to name by pressing the PROGR +/- or the number buttons 	The selected programme number will appear.
2 Press \rightarrow . 	The programme number starts flashing.
3 Press \square . 	The first column of the station name indication will start flashing.
4 Press + or - to select a letter in the alphabet, a number, or a blank space. 	The letters of the alphabet, numbers and the space (" ") will appear sequentially.
5 Press \square . 	The first character is now set and the second column will start flashing.
6 Repeat steps 4 and 5 to set each letter.	
7 Press \diamond . 	The channel is now stored and you have returned to TV mode.

How to tune in a channel temporarily


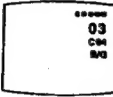
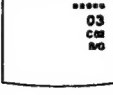
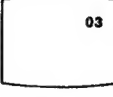
You can tune a channel in temporarily, if it has not been preset.

Action	Result
1 Press C. For cable channels, press C twice.	The indication "C" ("S" for cable channels) appears on the screen.
2 Select the channel number with two digits by pressing the number buttons (e.g. for channel 4, first press 0, then 4.)	The channel is received, but it is not stored to any programme number.

1-3. Basic TV operation

How to Skip Programmes

Using the PROGR +/- buttons you can skip unused programme channel numbers. However, the skipped numbers may still be called up using the number buttons.

Action	Result
1 Press Φ to enter the preset mode. 	The programme number will start flashing.
2 Select the programme number that you want to skip by pressing PROGR +/- or the number buttons. 	The programme number changes.
3 Press Coo. 	The lowest channel number appears under the programme number.
4 Press \circ . 	The channel is now stored and you have returned to TV mode.
Repeat steps 1 to 4 to skip other programme numbers.	

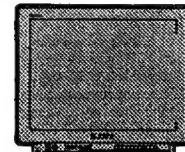
How to Fine Tune Manually

If the picture is distorted, you can fine tune the channel manually.

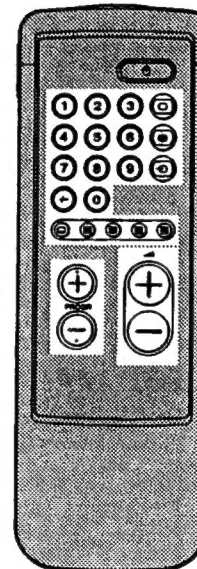
Action	Result
Press \square + or - repeatedly until the picture looks normal.	The indication $\leftarrow F \rightarrow$ appears on the screen.
Press Φ to enter the preset mode.	The programme number starts flashing.
Press \circ .	The fine tuning is stored.

Note: The automatic fine tuning will function again when you preset the channel once more.

Note: Press \perp on door to open.



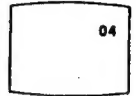
$P \rightarrow \Delta \rightarrow \Phi \rightarrow + / -$




This section introduces you to the basic control functions which are available on the simple side of the remote commander.

How to Select Programmes

Before you can select programmes make sure that you have preset channels, refer to page 29.

Action	Result
Press PROGR +/- or the number buttons. To select a double-digit number, use the +/- button. For example, if you want to choose 23, press +/-, 2, and then 3.	 The selected programme is displayed.

How to Adjust the Volume

Action	Result
Press Δ + or -.	 The volume markers will appear.

How to Use Additional Functions

How to operate with the buttons on the TV

You can also select programmes and adjust the volume using the $P \rightarrow \Delta \rightarrow \Phi$ and $\rightarrow \Delta \rightarrow$ +/- buttons on the front of the TV.

For operation, first press the $P \rightarrow \Delta \rightarrow \Phi$ button repeatedly so that the P (for programme) or Δ (for volume) indication appears on the screen, and then adjust with the $\rightarrow \Delta \rightarrow$ +/- buttons.

How to view the teletext

Press \square . To return to the TV mode, press \square .

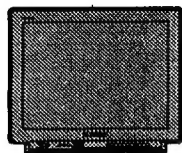
For details about the teletext operation, refer to page 33.

How to view the video input picture

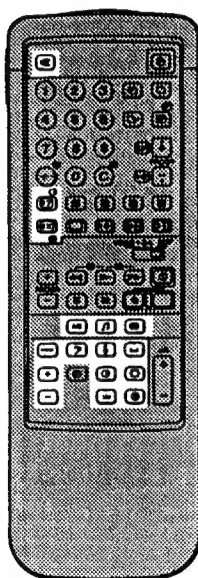
Press $\rightarrow \Delta \rightarrow$. To return to the TV mode, press \square . For further details, refer to page 36.

1-4. Advanced TV operation

This section shows you how to use convenient features and how to adjust the picture and sound to your taste. Use the full-function side of the Remote Commander.



A-CD-B



How to use on-screen display and special sound features

You can enjoy the following convenient features.

How to	Action	To resume normal picture/sound
Display on-screen indications	Press [C]	Indications disappear after some seconds
Display programme numbers	Press [C] twice	Press [C] twice again.
Mute the sound	Press [M]	Press [M] again.
Select a language in bilingual programmes.	Press A/B. The selected mode of the A-CD-B Indicator on the TV lights up.	Press A/B.
Set the sound to music listening position	Press [J]	Press [J] again.
Use the space sound (special acoustic effect)	Press [S]	Press [S] again.
Request the time	Press [T]	Press [T] again.

How to adjust the picture and sound

Although the picture and sound have been adjusted at the factory, you might want to adjust them to your own taste. To do this, please follow the steps.

For picture adjustment

To Adjust:	Press:	Then:	Result: (- ↔ +)
Picture:			
Colour Intensity	[C]	[+]	Less ↔ More
Picture Contrast	[I]		Less ↔ More
Brightness	[B]		Dark ↔ Light
Hue (for NTSC only)	[H]	[-]	Greenish ↔ Reddish
Sound:			
Bass	[B]	[+]	Less ↔ More
Treble	[T]		Less ↔ More
Balance	[BAL]		More Left/More Right

To reset the picture and sound to factory set levels press **[↔]**.

On the set:

Press **[↔]** **[+/-]** buttons simultaneously.

1-5. Teletext operation

TV stations broadcast teletext programmes via the TV channels. To receive teletext programmes, use the buttons indicated in green on the full side of the Remote Commander. With the simple side of the Remote Commander, only the basic operation is possible.

How to View the Teletext

Action	Result
1 Select the channel which carries the teletext service you wish to see.	The channel changes on the screen.
2 Press [INDEX] . Note on the Toptext Top-text programme is available only from some German stations. For information about the Toptext, please refer to the German language of this manual.	Teletext will appear. If the teletext signal is not broadcast, then p100 is displayed.
3 Input three digits for the page number using the number buttons. Note If you make a mistake, type in any three digits, then re-enter the correct page number.	The numbers are entered on the screen. The requested page will appear in a few seconds.
To return to the TV mode. Press [C] . To change the teletext channels First press [C] to return to the TV mode, then repeat steps 1 to 3.	






Note

If the signal of the TV channel is weak, teletext errors may often occur.

How to Use the Advanced Features of Teletext

How to	Action	Result (On-screen display)
Request the index page.	Press [INDEX] .	The index page appears.
Request the subtitle page (p888).	Press [C] .	The subtitle page is displayed (p888).
Access the next or preceding page.	Press [PAGE +] or [PAGE -] .	The next or preceding page appears.

1-6. Optional connections/operations

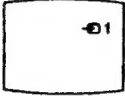
How to	Action	Result
Superimpose the teletext display on the TV programme.	Press Ⓢ once if you are in text mode, or press Ⓢ twice if in TV mode. To return to the normal teletext display press Ⓢ again.	 The teletext displays are superimposed on the TV programmes.
Prevent a teletext page from being updated or changed.	Press Ⓢ (HOLD). To resume normal teletext reception, press Ⓢ (TEXT/MIX).	 The HOLD symbol (Ⓢ) appears on the screen and the chosen sub-page is held until you cancel.
Enlarge the teletext display.	Press Ⓢ once to enlarge the upper half. Press twice to enlarge the lower half. Press again to restore the normal display.	 The upper half is enlarged.
Reveal concealed information (e.g. answers to a quiz).	Press Ⓢ (REVEAL). Press again to conceal the information.	 The information is revealed.
Watch the TV programme while waiting for a requested page to be displayed.	1. Request a new page.	The numbers are entered.
	2. Press Ⓢ (TEXT CL).	The TV program is displayed, and the requested page number and other teletext data appear at the top of the screen.
	3. When the requested page has been captured, the page number remains and the other data disappears.	 P201
	4. Press Ⓢ to view this page.	The requested page is displayed.
Have a requested page displayed at a pre-determined time.	1. Request a desired page.	The requested page is displayed.
	2. Press Ⓢ (TP ON).	"T****" appears at the bottom of the screen or "0001" at the top.
	3. Enter the time you want to have the page displayed with four digits using the number buttons. (For example, enter 0730 for 7:30 AM.)	The time is entered on the screen.
	To watch the TV programme until the requested time Press Ⓢ (TEXT CL). At the requested time, the page number will be displayed at the top of the screen. To view this page, press Ⓢ . To cancel the request Display the teletext page, then press Ⓢ (TP OFF).	

Some of the features may not be available depending on the Teletext service.

How to view the video input picture

You can view the picture of video equipment connected to the input terminals by selecting the input mode.

Operation

Action	Result
Press Ⓢ repeatedly to select the desired input.	 Ⓢ1 Symbol for the selected input appears. (See the table below.)
To return to the TV mode, press the Ⓢ button.	


Input modes

Symbol	Result
Ⓢ1	Audio/video input through the Ⓢ1 connector.
Ⓢ	RGB input through the Ⓢ connector.
Ⓢ2	Audio/video input through the Ⓢ2 connector.
Ⓢ2	S video input (from a VTR equipped with an S video output) through the Ⓢ2 connector.
Ⓢ3	Audio/video input through Ⓢ and Ⓢ jacks on the front.
You can also select the input mode using the P button on the TV. In this case, first select Ⓢ and then press +/ - buttons to select the input.	

How to select the Output

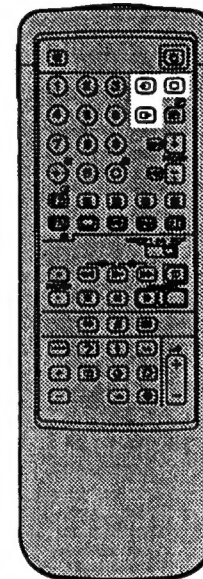
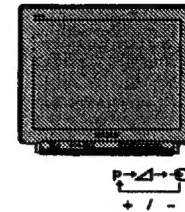
The **Ⓢ2** connector outputs four kinds of audio/video signals. You have to select one of them as follows.

Operation

Action	Result
Press Ⓢ repeatedly to select the desired input.	 1Ⓢ Symbol for the selected output appears. (See the table below.)

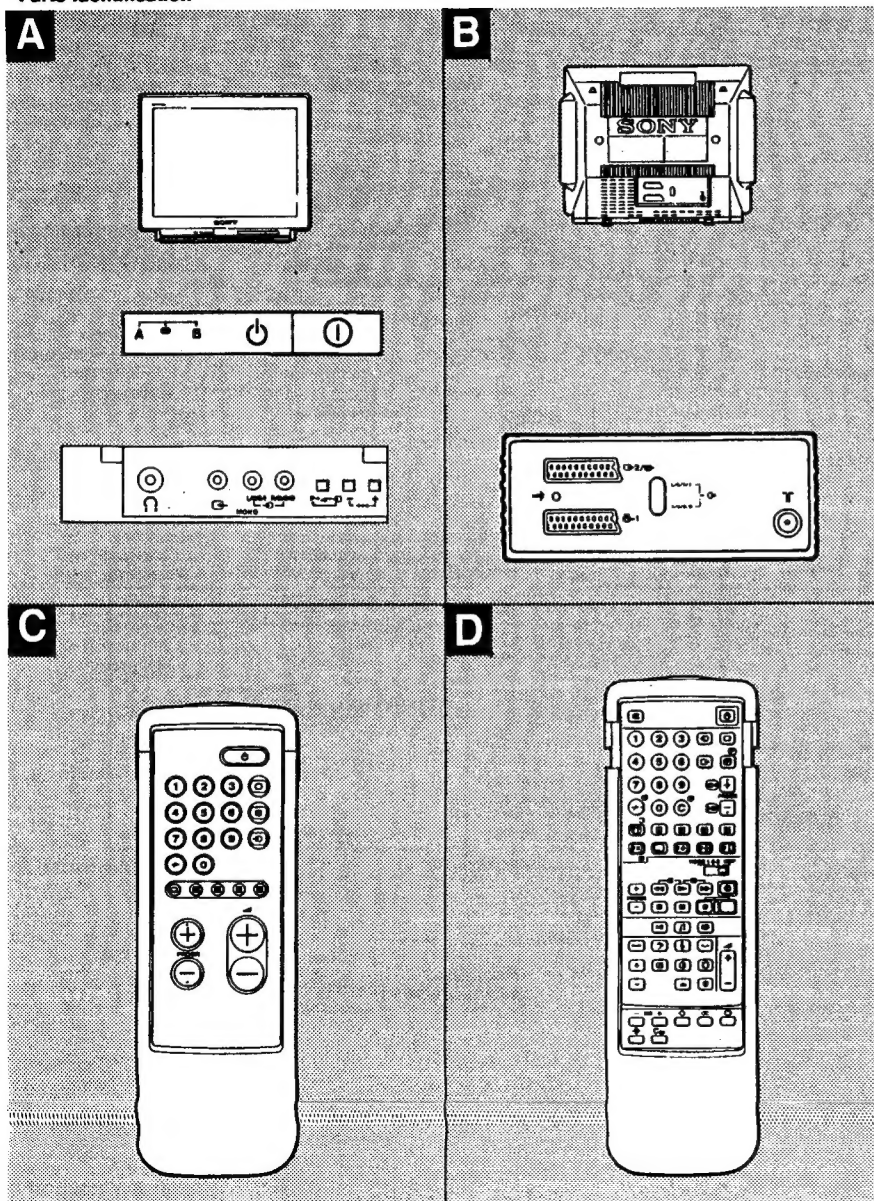
Output modes

Symbol	Output from
1Ⓢ	The audio/video signal from the Ⓢ1 connector
2Ⓢ	The audio/video signal from the Ⓢ2 connector
3Ⓢ	The audio/video signal from the Ⓢ and Ⓢ connectors.
TVⓈ	The audio/video signal from the T aerial terminal.



1-7. Additional information

Parts identification



This section briefly describes the buttons and controls on the TV set and on the Remote Commander. For more information, refer to the pages given next to each description.

A TV set – Front	
Sign	Name
	Main power switch
	Standby indicator
	Bilingual A/B Indicators
	Headphones Jack (stereo minijack)
	Input jacks (Video /video/audio)
	Function selector (Programme/ volume/input)
	Adjustment buttons for function selector

B TV set – Rear	
Sign	Name
	21-pin Euro-AV connector (S-video/video input, TV/video output)
	21-pin Euro-AV connector (RGB/video input, TV output)
	Audio output jacks (phono jacks)
	Aerial terminal (IEC type)

C Remote Commander – simple side

Sign	Name
	Input mode selector
	Teletext button
	TV mode selector
	Standby button
	Number buttons (1,2,3,4,5, 6,7,8,9, and 0)
	Double-digit entering button
	Volume control button
	Programme selector

D Remote Commander – full function side	
Sign	Name
	Mute on/off button
	Standby button
	Number buttons (1,2,3,4,5, 6,7,8,9, and 0)
	Input mode selector
	TV power on/TV mode selector button
	Output mode selector
	Teletext button
	Music button
	Language selector in bilingual programme
	Double-digit entering button
	Direct channel entering button
	Space sound button
	Request time display
	Teletext operation buttons
	Toptext buttons
	On-screen display button
	Picture and sound adjustment reset button
	Volume control
	Programme selector
	Picture and sound controls
	Video equipment selector
	Video equipment operation buttons
	Programme number clear button
	Channel preset button
	Tuning buttons
	Channel store button
	Station label button

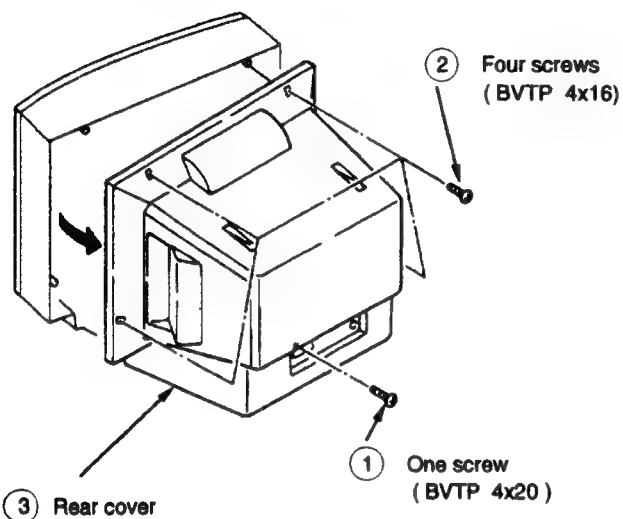
1-8. Troubleshooting

Here are some simple solutions to the problems which affect the picture and sound.

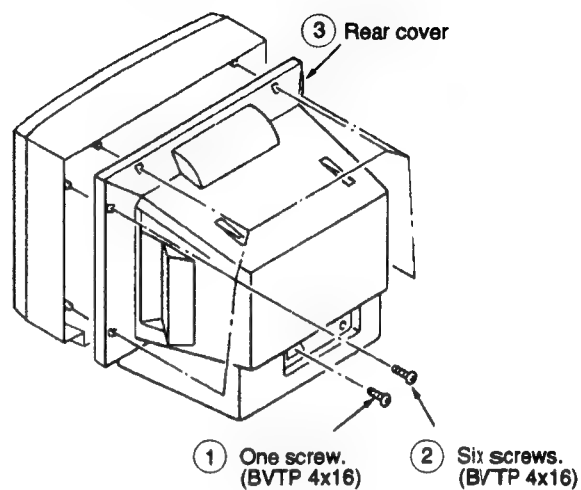
Problem	Solution
No picture (screen is dark), no sound	<ul style="list-style-type: none"> • Plug the TV in. • Press ⏻ on the TV. (If ⏻ indicator is on, press ⏻ or the programme number on the Remote Commander.) • Check the aerial connection. • Check if the selected video source is on. • Turn the TV off for 3 or 4 seconds and then turn it on again using ⏻.
Poor or no picture (screen is dark), but sound good	<ul style="list-style-type: none"> • Adjust the picture with ⏻, ⏻, ⏻, and + buttons.
Good picture but no sound	<ul style="list-style-type: none"> • Press ⏻ +. • Disconnect the headphones. • If ⏻ is displayed on the screen, press ⏻.
No colour for colour programmes	<ul style="list-style-type: none"> • Press ↔ on the Remote Commander.
If you continue to have these problems, have your TV serviced by qualified personnel. Never open the casing yourself.	

SECTION 2 DISASSEMBLY

2-1-1. REAR COVER REMOVAL (21 Inch, 25 inch)

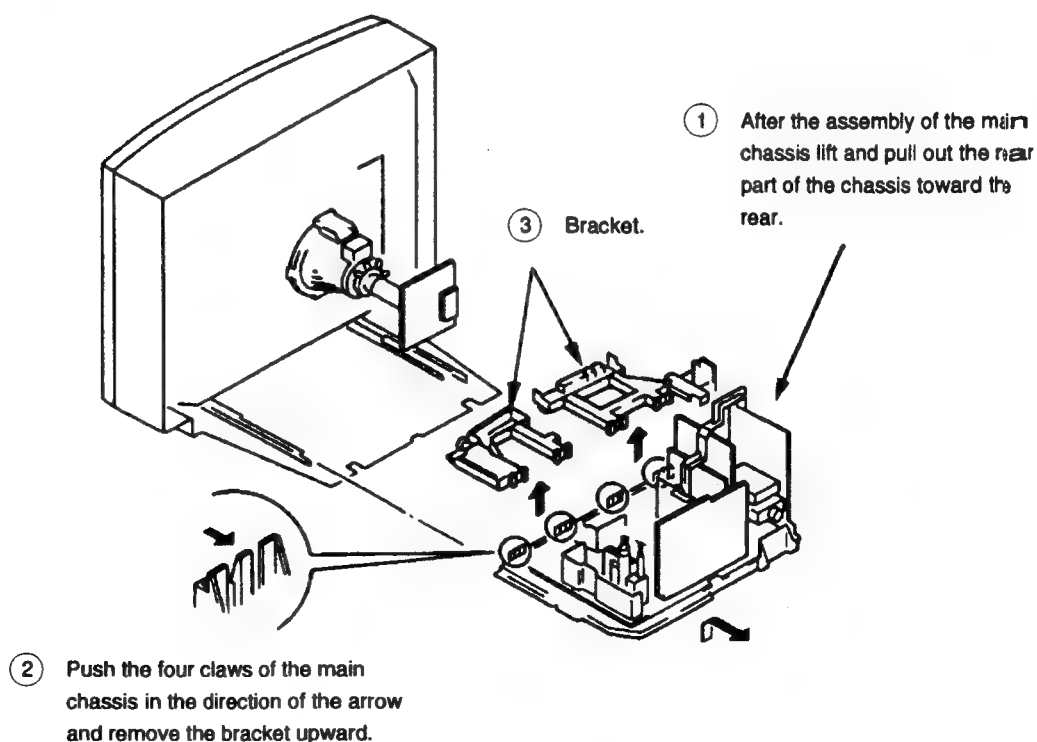


2-1-2. REAR COVER REMOVAL (29 inch)

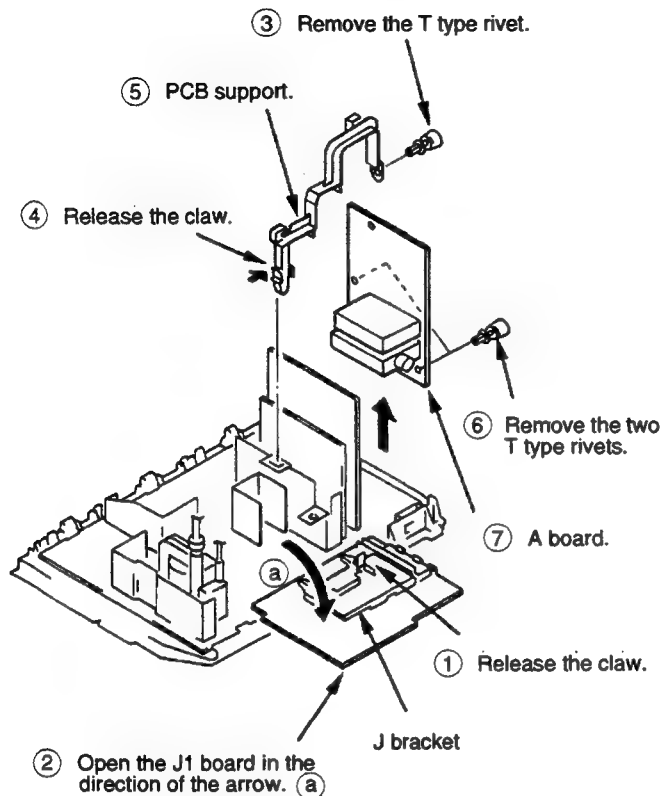


- 1) Pull the rear cover and turn the right speaker leads fixed by the pathlock on the chassis.
- 2) When attaching the rear cover for the speaker leads by pathlock.

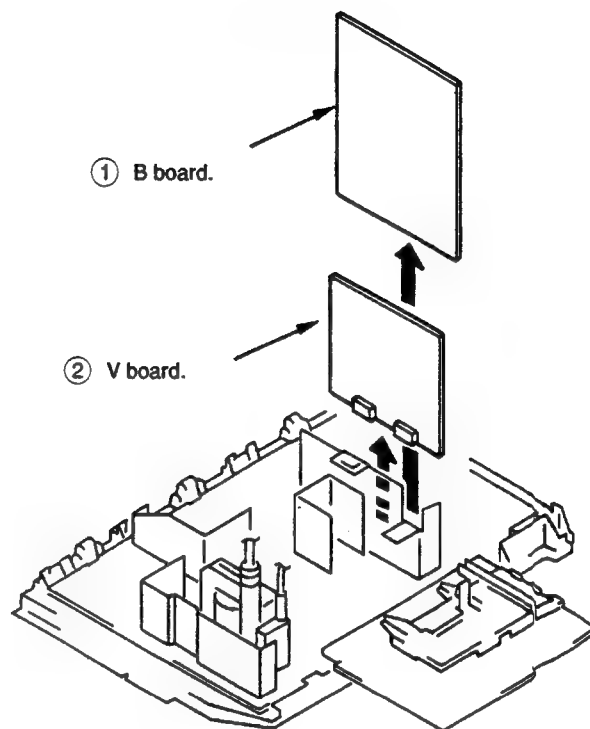
2-2. CHASSIS ASSEMBLY REMOVAL



2-3. A AND J1 BOARD REMOVAL



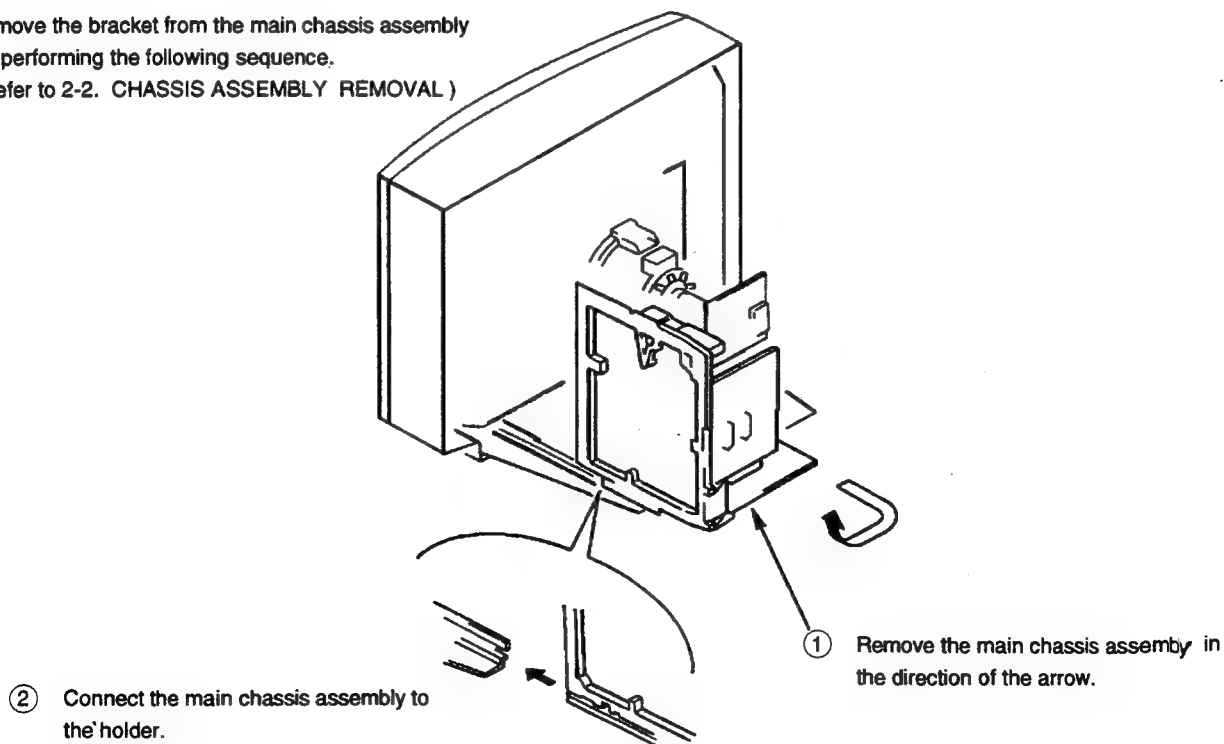
2-4. B AND V BOARD REMOVAL



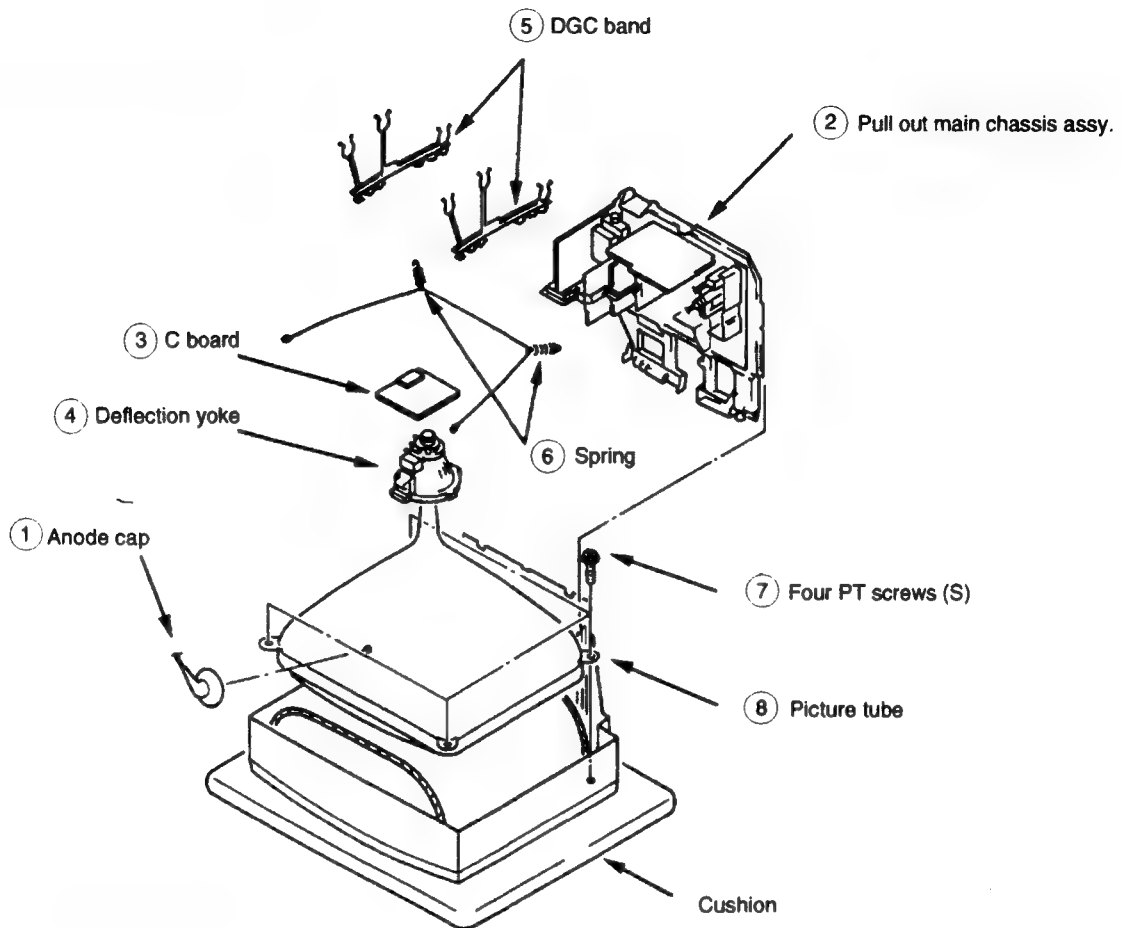
Note : 10 pin extension cable (S-0945-001-0)

2-5. SERVICE POSITION

- ※ Remove the bracket from the main chassis assembly by performing the following sequence.
(Refer to 2-2. CHASSIS ASSEMBLY REMOVAL)



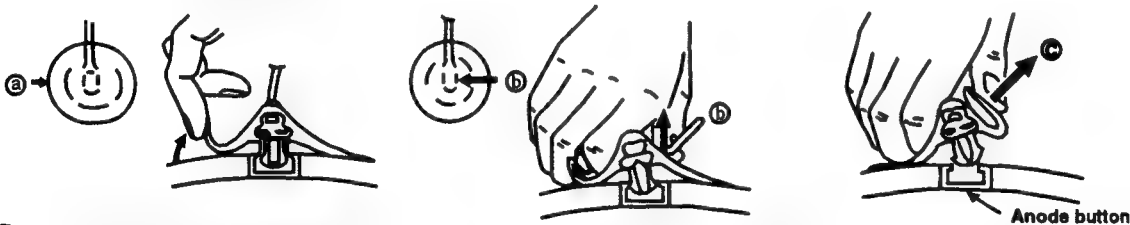
2-6-1. PICTURE TUBE REMOVAL (21 inch)



• REMOVAL OF ANODE-CAP

Note: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

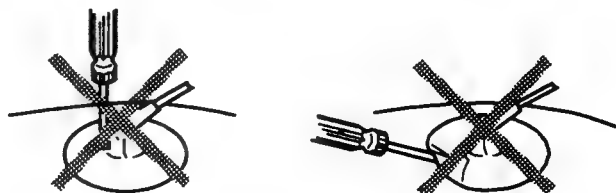
• REMOVING PROCEDURES.



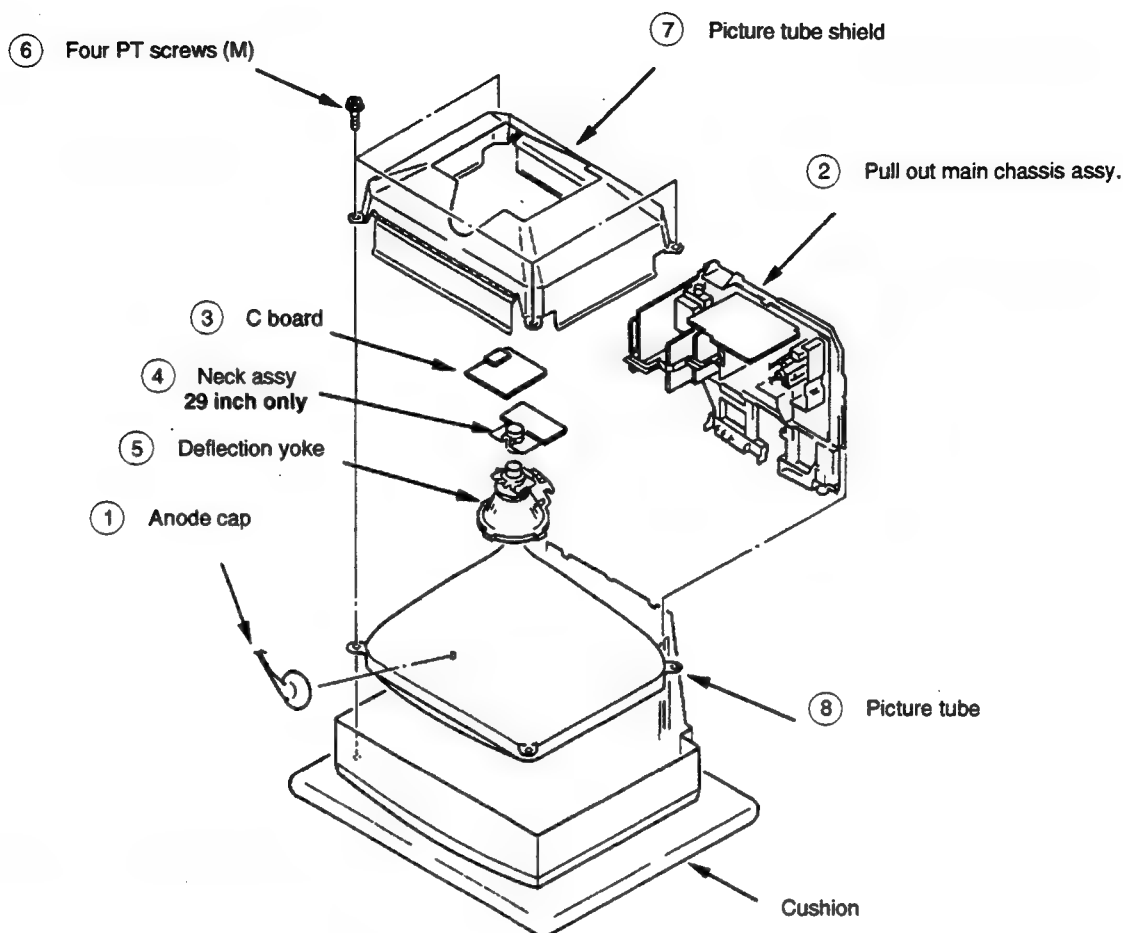
- ① Turn up one side of the rubber cap in the direction indicated by the arrow (a)
- ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow (b)
- ③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow (c)

• HOW TO HANDLE AN ANODE-CAP

- ① Don't damage the surface of anode-cap with sharp shaped material !
- ② Don't press the rubber hardy not to hurt inside of anode-caps !
A metal fitting called as shatter-hook terminal is built in the rubber.
- ③ Don't turn the foot of rubber over hardy !
The shatter-hook terminal will stick out or damage the rubber.



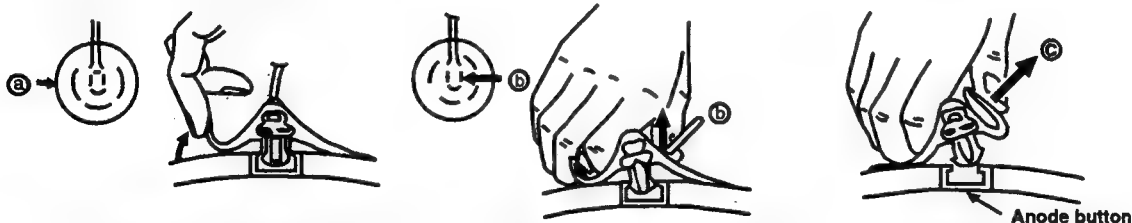
2-6-2. PICTURE TUBE REMOVAL (25 inch, 29 inch)



• REMOVAL OF ANODE-CAP

Note: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

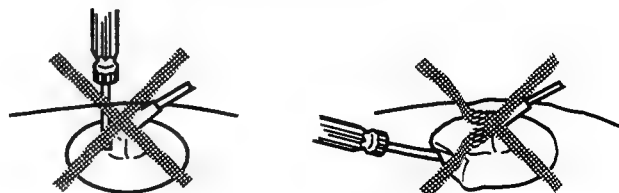
• REMOVING PROCEDURES.



- ① Turn up one side of the rubber cap in the direction indicated by the arrow (a)
- ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow (b)
- ③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow (c)

• HOW TO HANDLE AN ANODE-CAP

- ① Don't damage the surface of anode-cap with sharp shaped material !
- ② Don't press the rubber hardly not to hurt inside of anode-caps !
A metal fitting called as shatter-hook terminal is built into the rubber.
- ③ Don't turn the foot of rubber over hardly !
The shatter-hook terminal will stick out or damage the rubber.



SECTION 3 SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there is specific instruction to the contrary, carry out these adjustments with the rated power supply.
- Unless there is specific instruction to the contrary, set the controls and switches this way :
 Ⓢ Contrast 80%
 (or remote control normal)
 ⚙ Brightness 50%

- Carry out the following adjustments in this order:

1. Beam landing
2. Convergence
3. Focus
4. White balance

Note: Testing equipment required

1. Color bar/pattern generator
2. Degausser
3. DC power supply
4. Digital multimeter
5. Oscilloscope

Preparation: (21 inch, 25 inch)

- In order to reduce the influence of geomagnetism on the set's picture tube face it east or west.
- Switch on the set's power and degauss with the degausser.

3-1. BEAM LANDING

1. Input the white signal with the pattern generator.
 Contrast } normal
 Brightness }
2. Position neck ass'y as shown in Fig. 3-2.
3. Set the pattern generator raster signal to red.
4. Move the deflection yoke to the rear and adjust with the purity control so that the red is at the center and the blue and the green take up equally sized areas on each side.
 (see Fig. 3-1 through 3-3.)
5. Move the deflection yoke forward and adjust so that entire screen is red. (See Fig. 3-1.)
6. Switch the raster signal to blue, then to green and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it.
 (See Fig. 3-4.)

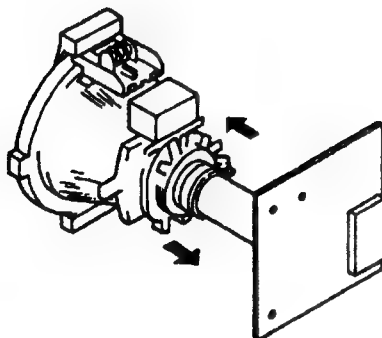


Fig. 3-1

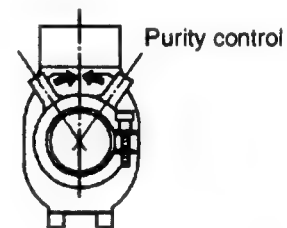


Fig. 3-2

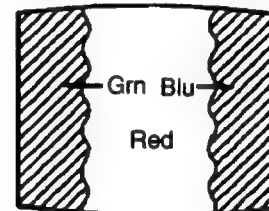


Fig. 3-3

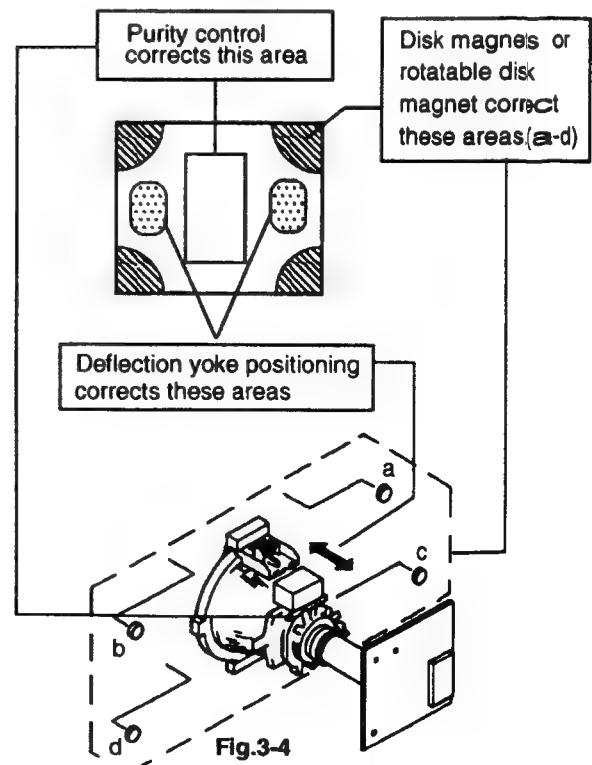


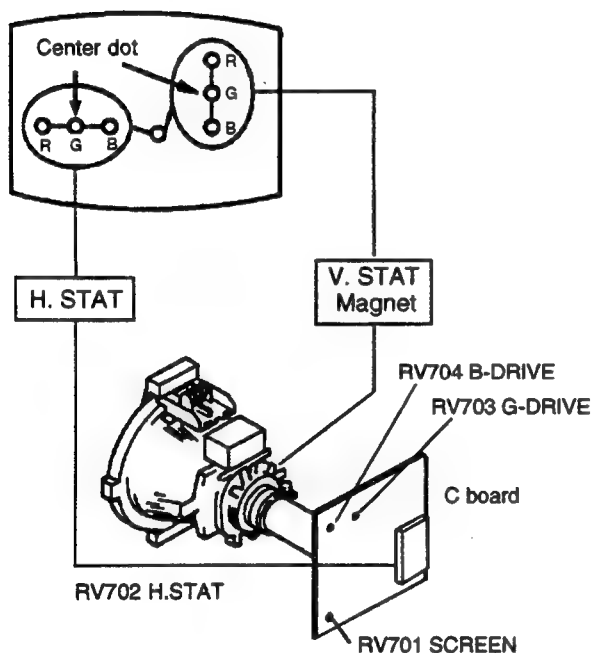
Fig. 3-4

3-2. CONVERGENCE

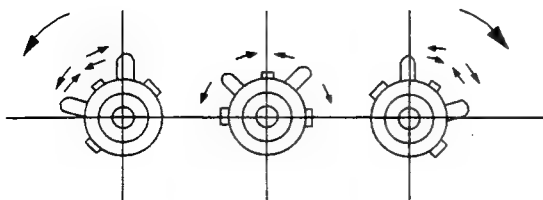
Preparation:

- Before starting, perform FOCUS, H.SIZE, and V.SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in the dot pattern.

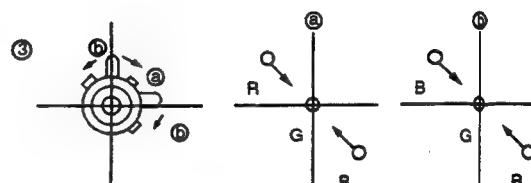
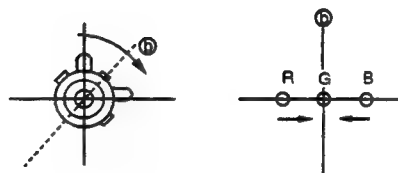
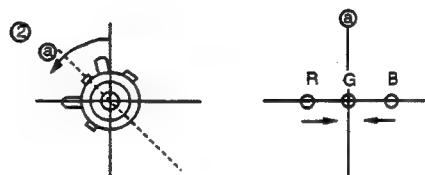
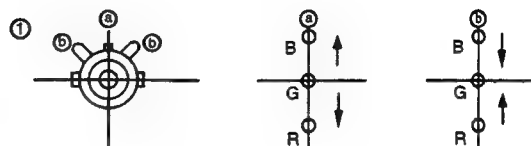
(1) Horizontal and Vertical Static Convergence.



1. Adjust H.STAT VR to converge red, green, and blue dots at the center of the screen. (Horizontal movement)
 2. Adjust V.STAT magnet to converge red, green, and blue dots at the center of the screen. (Vertical movement)
 3. If the red, green and blue dots do not converge at the screen center with the H.STAT VR and V.STAT magnet as shown below. (In this case, HSTAT VR and V.STAT magnet effect each other.)
- Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.



4. If the V.STAT magnet is moved in the direction of the (a) and (b) arrows, the red, the green, and blue points move as shown below.



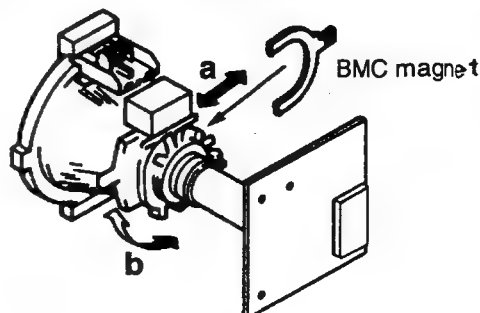
[21 inch only]

If the red and blue dots do not converge with the green dots, perform the following steps.

Move BMC magnet (a) to correct insufficient H.STAT convergence.

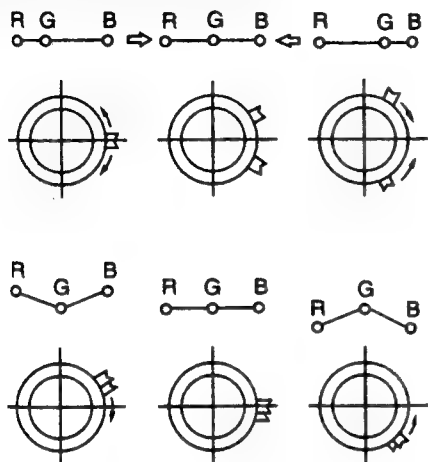
Rotate BMC magnet (b) to correct insufficient V.STAT convergence.

In either case, repeat Beam Landing Adjustment.

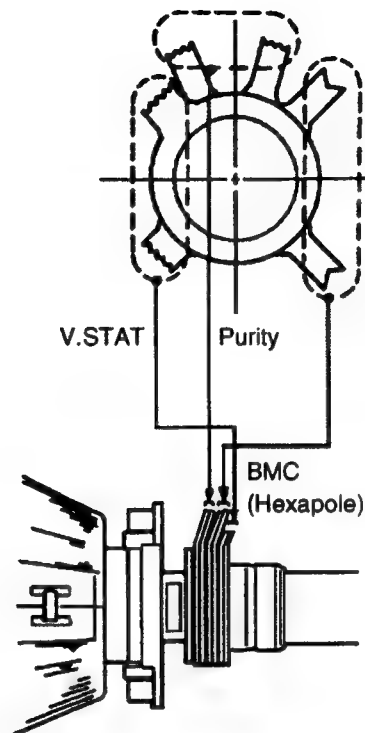


(KV-25 Inch only)

- Operation of BMC (Hexapole) Magnet



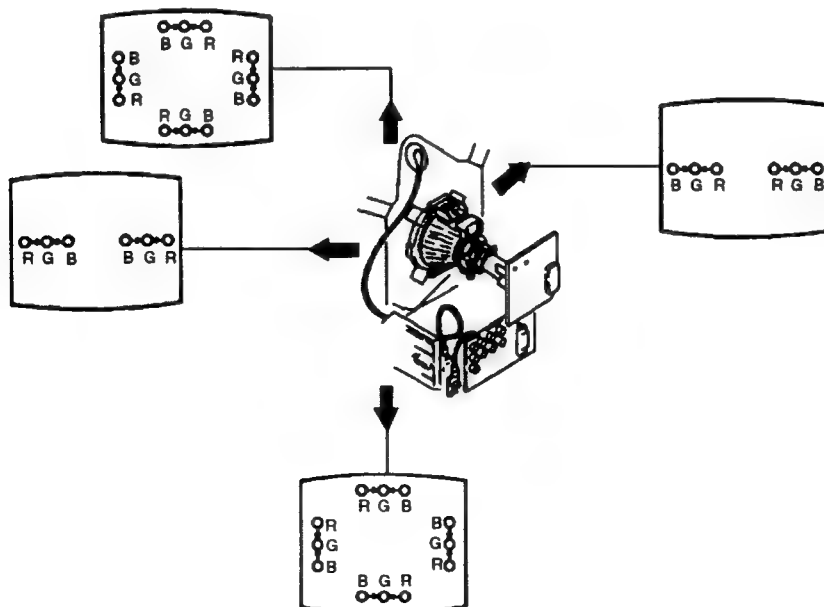
- The respective dot positions resulting from moving each magnet interact, so be sure to perform adjustment while tracking.
Use the H. STAT VR to adjust the red, green, and blue dots so they coincide at the center of the screen by moving the dots in the horizontal direction).



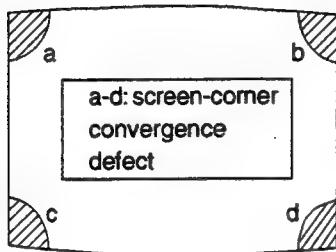
(2) Dynamic convergence adjustment Preparation:

Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.

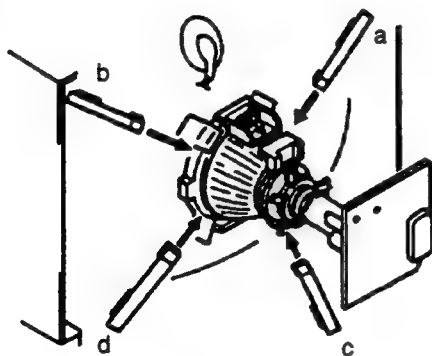
- Slightly loosen the deflection yoke screws.
- Remove the deflection yoke spacer.
- Move the deflection yoke as shown in the figure below and optimize the convergence.
- Tighten the deflection yoke screws.
- Install the deflection yoke spacer.



(3) Screen corner convergence



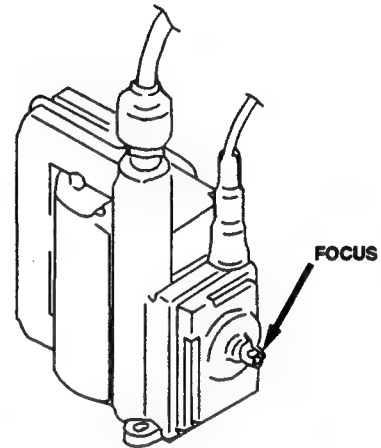
Install the permalloy assembly for the section with faulty corner convergence.



Permalloy ass'y. correction.

3-3. FOCUS

Adjust FOCUS so that the whole screen is in best focus.



3-4. SCREEN (G2) and WHITE BALANCE

[Screen G2 setting]

1. Input dot signal from the pattern generator.
2. Set the picture BRIGHTNESS control to minimum level.
3. Apply 170V DC to the cathodes of R,G and B from an external power source.
4. While watching the picture, adjust the G2 volume (RV701) immediately before fly-back lines disappear.

[White balance adjustment]

1. Input an all-white signal from the pattern generator.
2. Set the picture BRIGHTNESS and COLOR controls to their normal levels.
3. Use RV704 (B DRIVE) and RV703 (G DRIVE) to adjust for best white balance.
4. Repeat steps 2 and 3 to obtain best results.

Preparation: (29 inch)

- In order to reduce the influence of geomagnetism on the set's picture tube face it east or west.
- Switch on the set's power and degauss with the degausser.

3-5. BEAM LANDING

1. Input the white signal with the pattern generator.
Contrast } normal
Brightness }
2. Position neck ass'y as shown in Fig 3-2.
3. Set the pattern generator raster signal to red.
4. Move the deflection yoke to the rear and adjust with the purity control so that the red is at the center and the blue and green take up equally sized areas on each side.
(See Figures 3-1 through 3-3.)
5. Move the deflection yoke forward and adjust so that the entire screen is red. (See Figure 3-1.)
6. Switch the raster signal to blue, then to green and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it. (See Figure 3-4.)

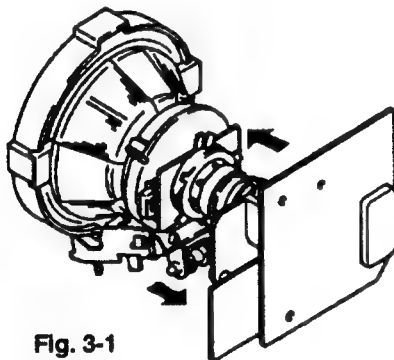


Fig. 3-1

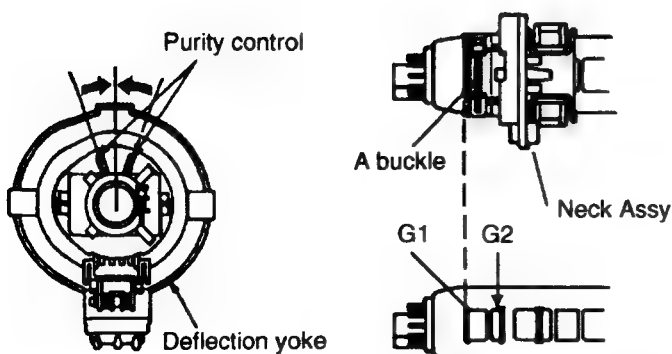


Fig. 3-2

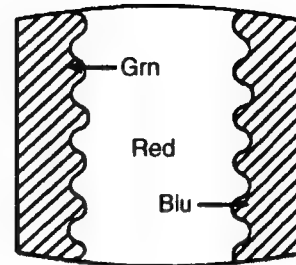


Fig. 3-3

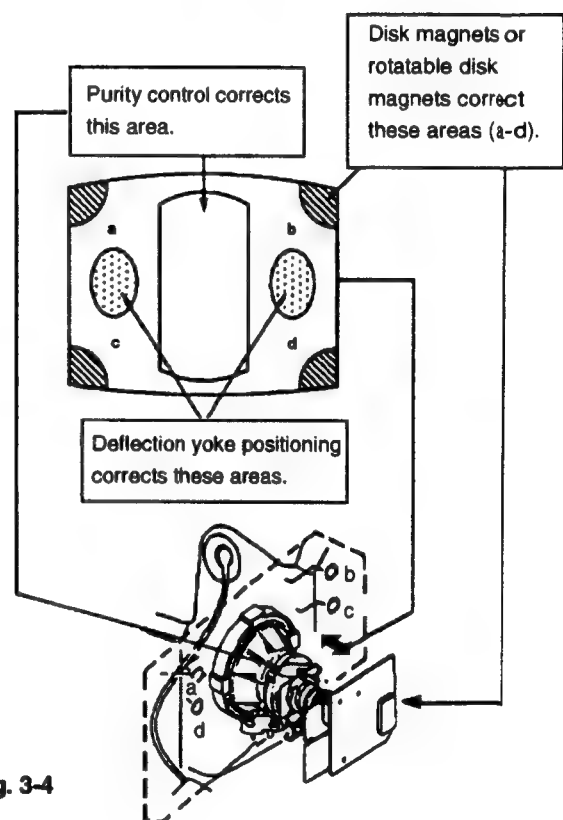


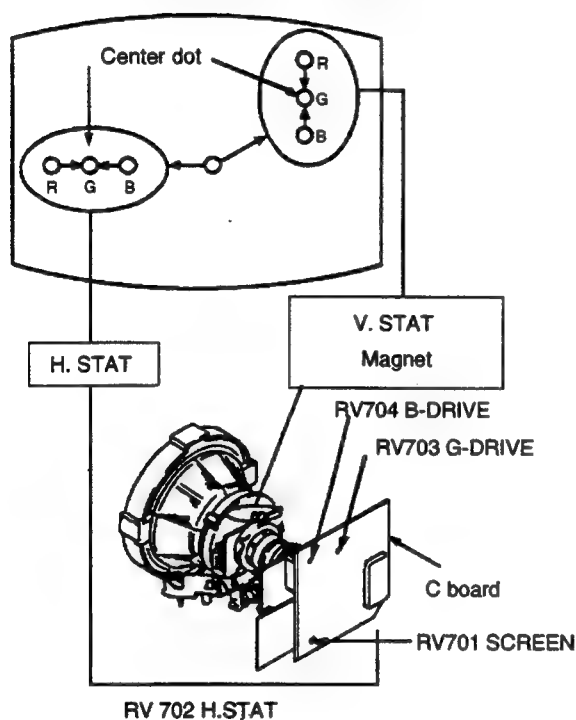
Fig. 3-4

3-6. CONVERGENCE

Preparation:

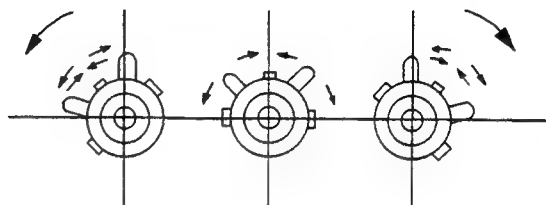
- Before starting, perform FOCUS, H.SIZE, and V.SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in the dot pattern.

(1) Horizontal and Vertical Static Convergence.

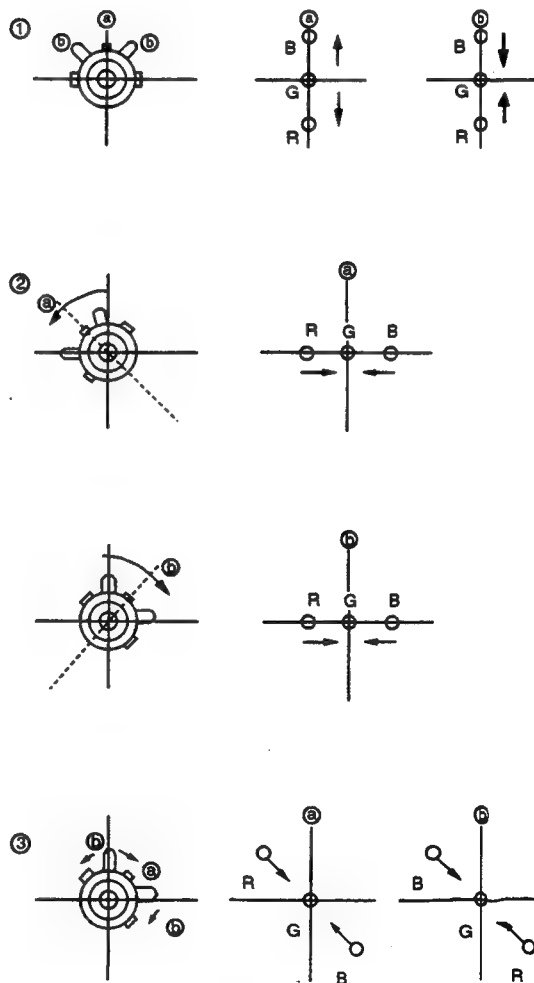


1. (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the center of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
3. If the H.STAT variable resistor cannot bring the red, green, and blue points together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V. STAT magnet in the manner given below.
(In this case, the H.STAT variable resistor and the V.STAT magnet influence each other.)

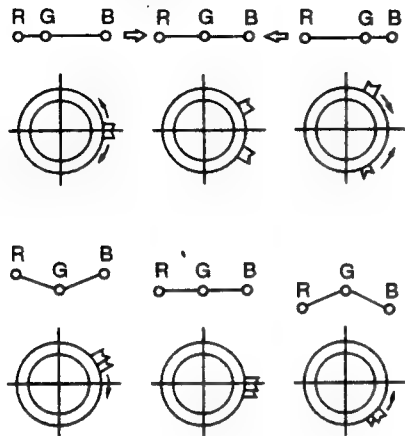
- Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.



4. If the V.STAT magnet is moved in the direction of the (a) and (b) arrows, the red, green, and blue points move as shown below.



• Operation of BMC (Hexapole) Magnet



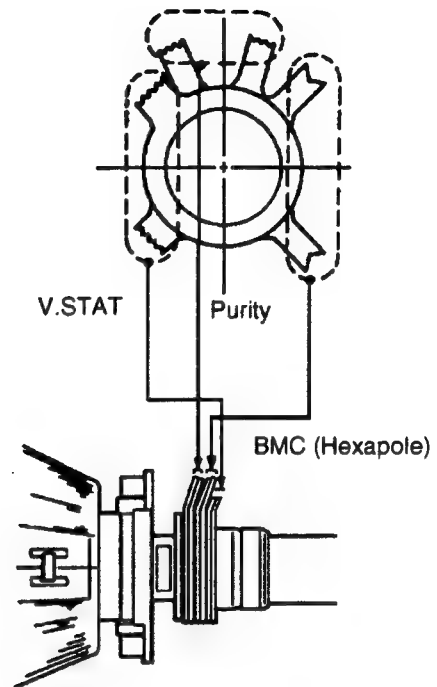
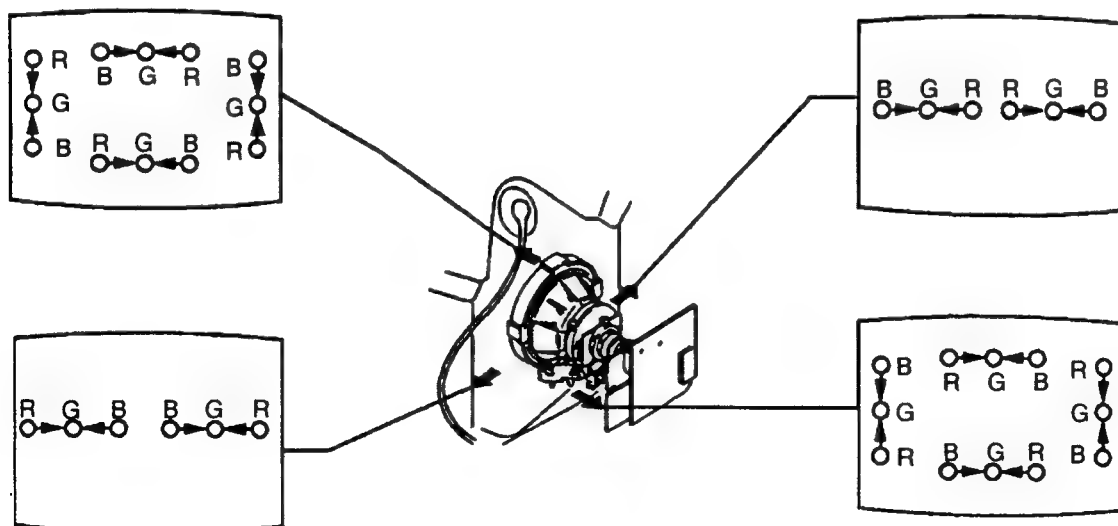
The respective dot positions resulting from moving each magnet

- interact, so be sure to perform adjustments while tracking. Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the center of the screen (by moving the dots in the horizontal direction).

(2) Dynamic convergence adjustment
preparation :

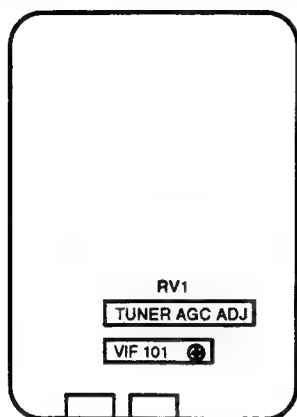
Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.

1. Slightly loosen the deflection yoke screws.
2. Remove the deflection yoke spacer.
3. Move the deflection yoke as shown in the figure below and optimize the convergence.
4. Tighten the deflection yoke screws.
5. Install the deflection yoke spacer.



SECTION 4 CIRCUIT ADJUSTMENTS

4-1. A BOARD ADJUSTMENT

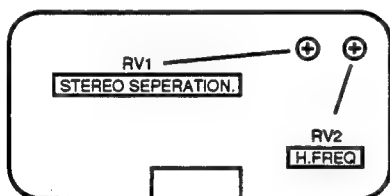


A BOARD (COMPONENT SIDE)

TUNER AGC ADJUSTMENT (VIF101, RV1)

1. Align with an appropriate signal between stations.
2. Adjust AGC VR so that the snow and crossmodulation just disappear from the picture.

IFG5.5S SIF



IFG5.5S SIF -component side-

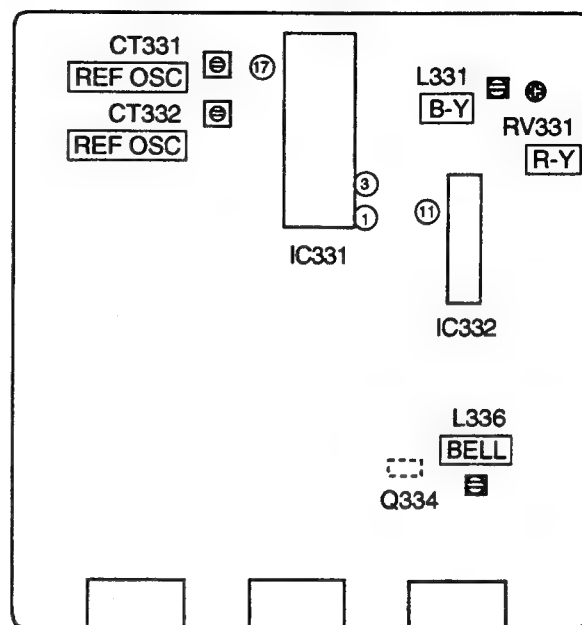
STEREO SEPERATION ADJUSTMENT (RV1)

1. Input stereo signals. (L-CH 400Hz, R-CH 1KHz)
2. Check the stereo indicator.
3. Connect an oscilloscope to pin (8) (CH1) of CN1 through band pass filter of 1KHz.
4. Adjust RV1 so that 1KHz voltage goes down to the minimum.

H FREQ (RV2)

1. Input a PAL COLOR BAR signal, then connect a jumper wire between pin (12) IC4 and GND.
2. Connect a frequency counter to pin (4) IFG5.5S (HP) of CN1 through a probe of 10:1.
3. Adjust RV2 (H.FREQ) 15.625±50Hz.
4. After adjustment, remove the jumper wire.

4-2. B BOARD ADJUSTMENTS



REFERENCE OSCILLATOR ADJUSTMENT (CT332 8.8MHz)

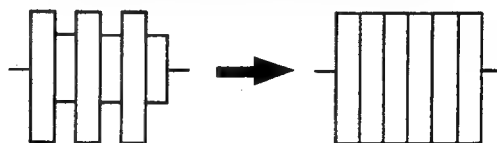
1. Input a PAL color bar signal.
2. Ground pin (17) of the IC331.
3. Adjust CT332 to obtain synchronization.

REFERENCE OSCILLATOR ADJUSTMENT (CT331 7.16MHz)

1. Input a NTSC color bar signal.
2. Ground pin (17) of the IC331.
3. Adjust CT331 to obtain synchronization.
4. Remove the jumper grounding pin (17) of IC331.

BELL FILTER ADJUSTMENT (L336)

1. Input a SECAM color bar signal.
2. Connect the oscilloscope to the emitter of Q334.
3. Adjust L336 so that the waveform is flat.

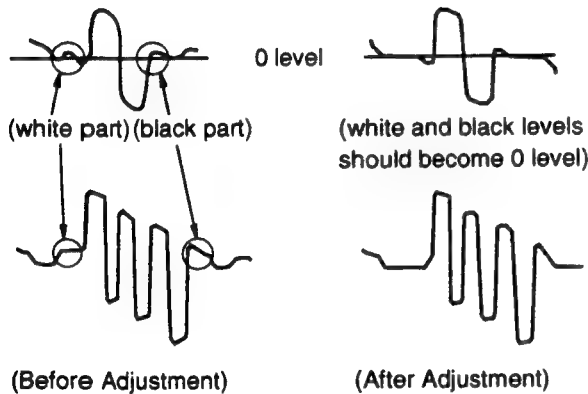


<Before Adjustment>

<After Adjustment>

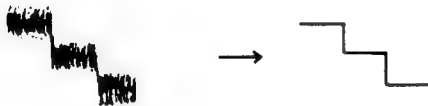
DISCRIMINATOR ADJUSTMENTS (RV331 and L331)

1. Input a Secam color bar signal.
2. Connect the oscilloscope to pin ① of IC331.
3. Adjust RV331 until the white and black sections of the waveform at pin ① are at the 0 level.
Connect the oscilloscope to pin ③ of IC331.
4. Adjust L331 until the white and black sections of the waveform at pin ③ are at the 0 level.



SECAM TRAP (L312)

1. Input a SECAM color bar signal.
2. Connect the oscilloscope to Q340 emitter and adjust L312 to minimize color carrier on the Y-signal.

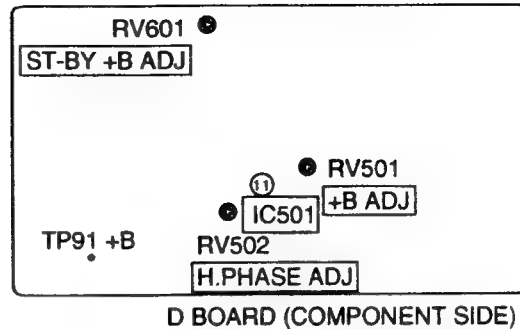


NTSC TRAP (L308)

1. Input a NTSC (3.58) color bar signal.
2. Connect the oscilloscope to Q340 emitter and adjust L308 to minimize color carrier on the Y-signal.



4-3. D BOARD ADJUSTMENTS



+B ADJUSTMENT (RV501)

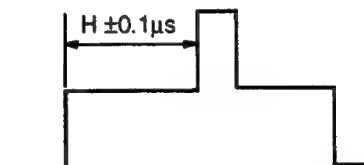
1. Connect the digital multimeter to TP91.
2. Adjust RV501 to obtain $135 \pm 0.2V$.

ST-BY +B ADJUSTMENT (RV601)

1. Put the system into ϕ standby mode (remote commander).
2. Connect the digital multimeter to TP91.
3. Adjust RV601 to obtain $135 \pm 3V$.
4. Take the system out of ϕ standby mode (remote commander).

H.PHASE ADJUSTMENT (RV502)

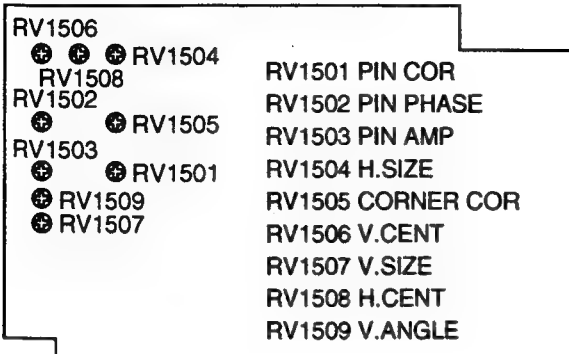
1. Input a PAL color bar signal.
2. Set the picture and brightness controls to their normal levels.
3. Set RV1508 (H.CENT) to its mechanical center.
4. Connect the oscilloscope to pin ⑪ (SCP) of IC501.
5. Rotate RV502 to adjust to H



Standard of H.PHASE

Model Size	H
21"	5.6μs
25"	5.1μs
29"	5.5μs

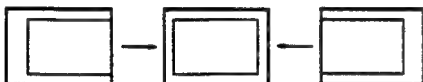
4-4. J1 BOARD ADJUSTMENTS



J1 BOARD (COMPONENT SIDE)

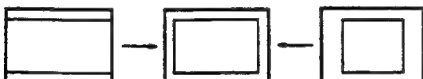
RV1508

H.CENT (HORIZONTAL CENTER)



RV1504

H.SIZE (HORIZONTAL SIZE)



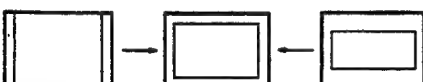
RV1506

V.CENT (VERTICAL CENTER)



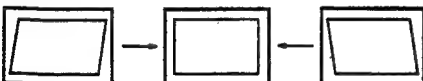
RV1507

V.SIZE (VERTICAL SIZE)



RV1509

V.ANGLE (VERTICAL ANGLE)



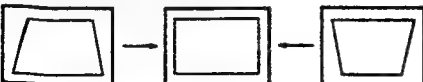
RV1503

PIN AMP (PINCUSHION AMPLIFIER)



RV1502

PIN PHASE (PINCUSHION PHASE)



RV1501

PIN. COR (PINCUSHION CORRECT)

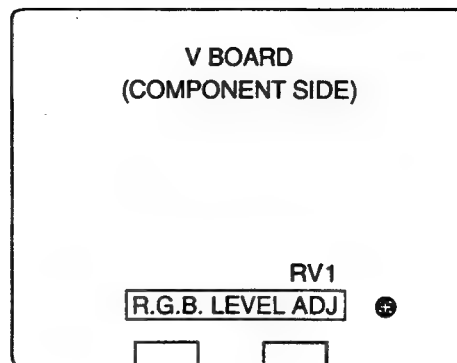


RV1505

CORNER COR (CORNER CORRECT)



4-5. V BOARD ADJUSTMENT



RGB LEVEL ADJUSTMENT (RV01)

1. Maximize the picture setting.
2. Adjust RV01 so that the RGB output is 0.75V.

4-6. SECONDARY ADJUSTMENTS

SUB BRIGHTNESS ADJUSTMENT

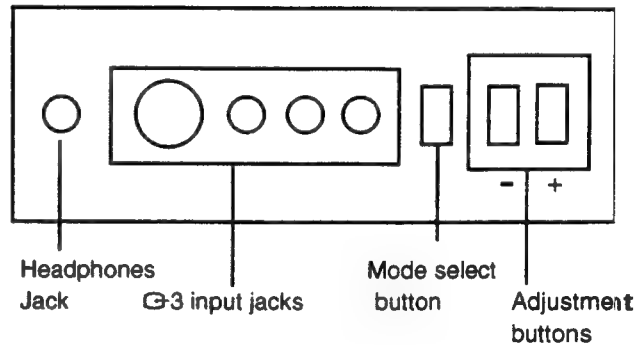
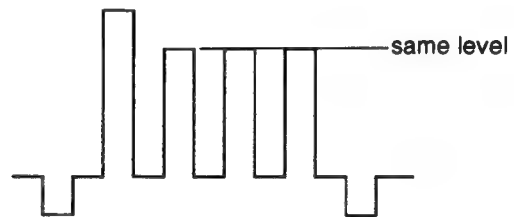
1. Set the system to receive a test pattern.
2. Press $\rightarrow\leftarrow$ on the remote commander to put the system into normal mode.
3. Switch off the power.
4. While depressing the adjusting buttons + and - simultaneously, turn on the power. (SUB mode is obtained)
5. Minimize the \odot contrast setting.
6. Adjust the \star brightness control so that the gray scale 0 IRE section is cut off completely and the 20 IRE section is barely glowing.
7. Depress the \diamond (store) button of the remote commander. (SUB mode is released)

If there is no test color pattern

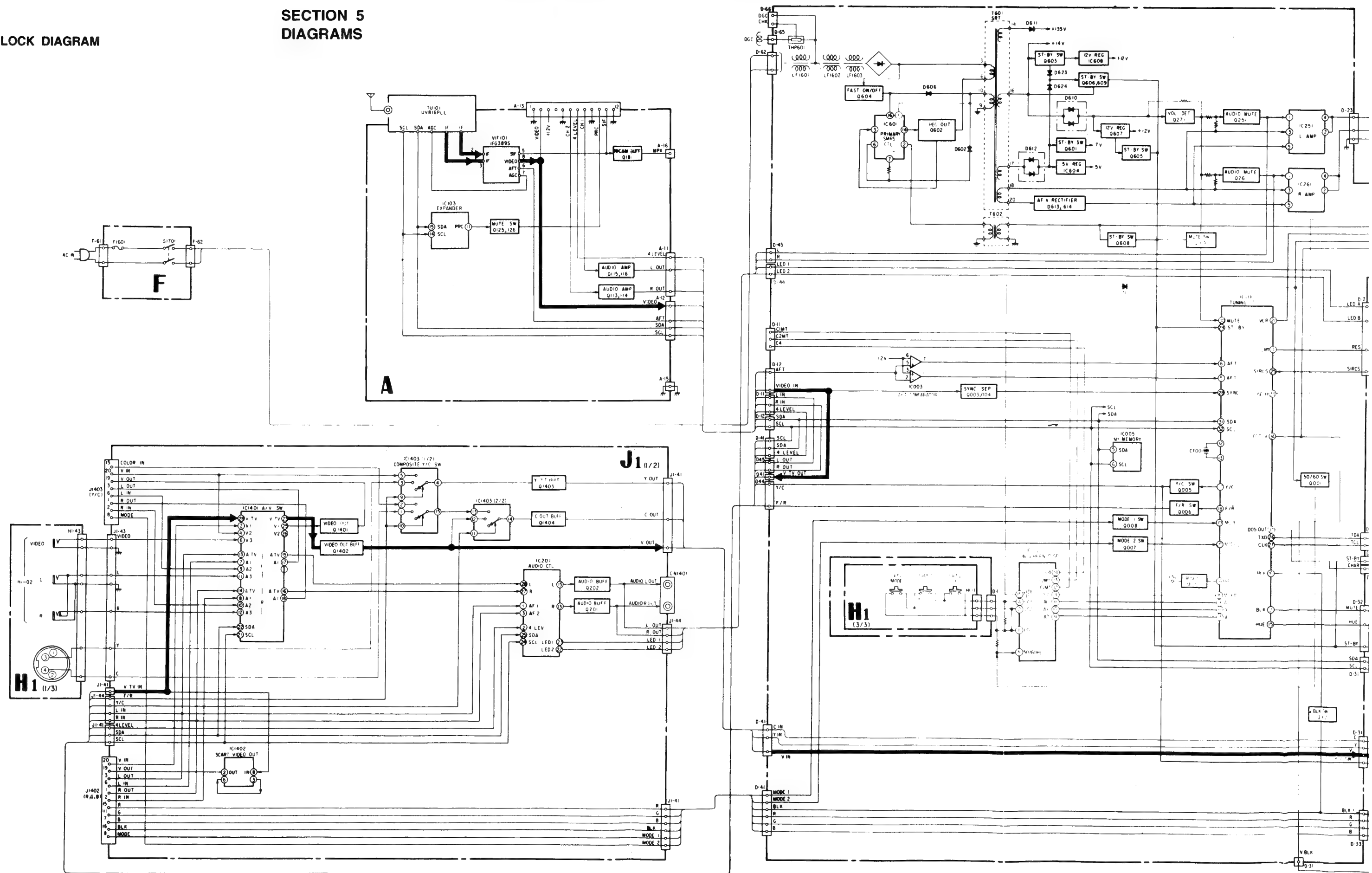
1. Set the system to receive a color pattern.
2. Press $\rightarrow\leftarrow$ on the remote commander to put the system into normal mode.
Set the \odot color to its normal state.
- 3-5. Steps are the same as above.
6. Since 20 IRE is nearly blue, adjust the \star brightness control so that the blue barely glows.
7. Same as step 7 above.
8. Press $\rightarrow\leftarrow$ on the remote commander to put the system into normal mode.

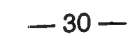
SUB COLOR ADJUSTMENT

1. Set the system to receive color bars.
2. Press $\rightarrow\leftarrow$ on the remote commander to put the system into normal mode.
3. Cut off the power.
4. While depressing the adjustment buttons + and - simultaneously, turn on the power. (SUB mode is obtained).
5. Adjust the color control so that the B out waveform (pin ⑤ of C board connector CNC72) is as shown in the figure below.
6. Depress the \diamond (store) button of the remote commander. (SUB mode is released)



5-1. BLOCK DIAGRAM

SECTION 5
DIAGRAMS



KV-X2141D/X2541D/X2941D
RM-816

KV-X2141D/X2541D/X2941D
RM-816

H₁

CONTROL SW,
AV INPUT,
HEADPHONE

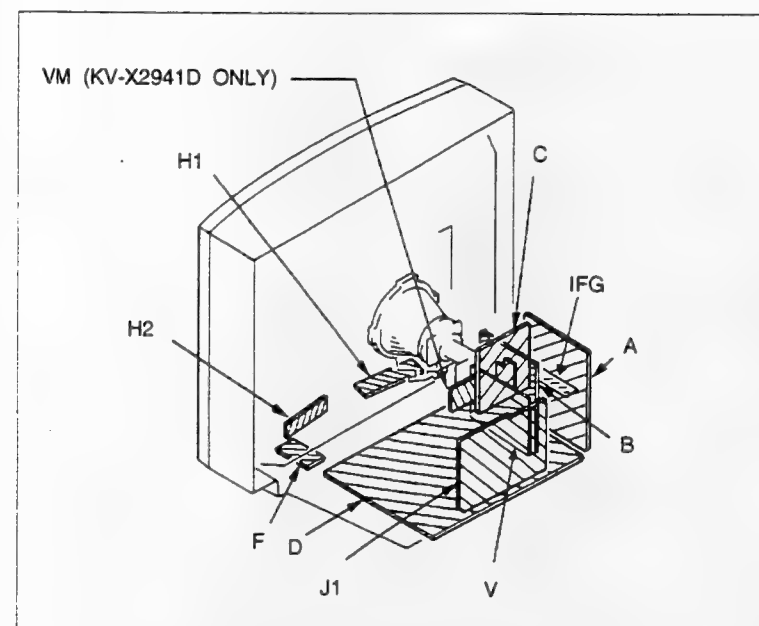
H₂

SIRCS RECEIVER,
INDICATOR

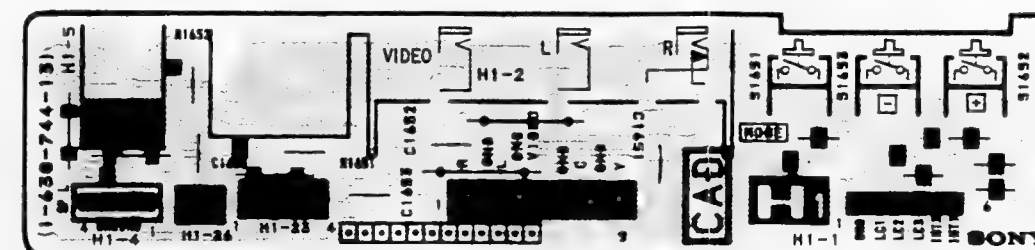
F

[AC IN POWER SW]

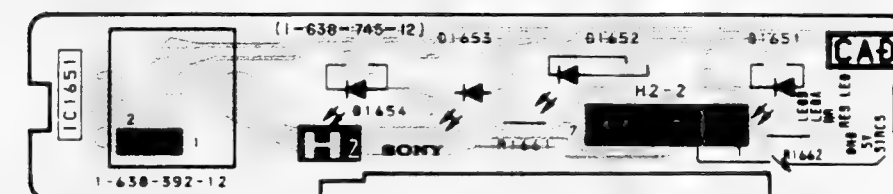
5-2. CIRCUIT BOARD LOCATION



— H1 Board —



— H2 Board —



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS - Conductor Side -

Note:

- All capacitors are in μF unless otherwise noted. pF: μF 50WV or less are not indicated except for electrolytic and tantalums.
- All resistors are in ohms.
 $k\Omega = 1000\Omega$, $M\Omega = 1000K\Omega$
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5 mm
Rating electrical power $\frac{1}{4}$ W

- : nonflammable resistor.
- : internal component.
- : panel designation, or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- \perp : earth - ground.
- $\text{---}\text{---}\text{---}$: earth - chassis.
- $\text{---}\text{---}\text{---}$: no mounted.

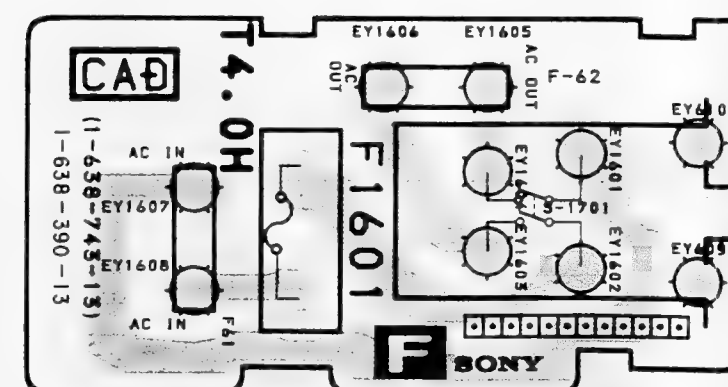
Note : The components identified by shading and marked are critical for safety. Replace only with part number specified.

Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: \times	ADJUSTABLE RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

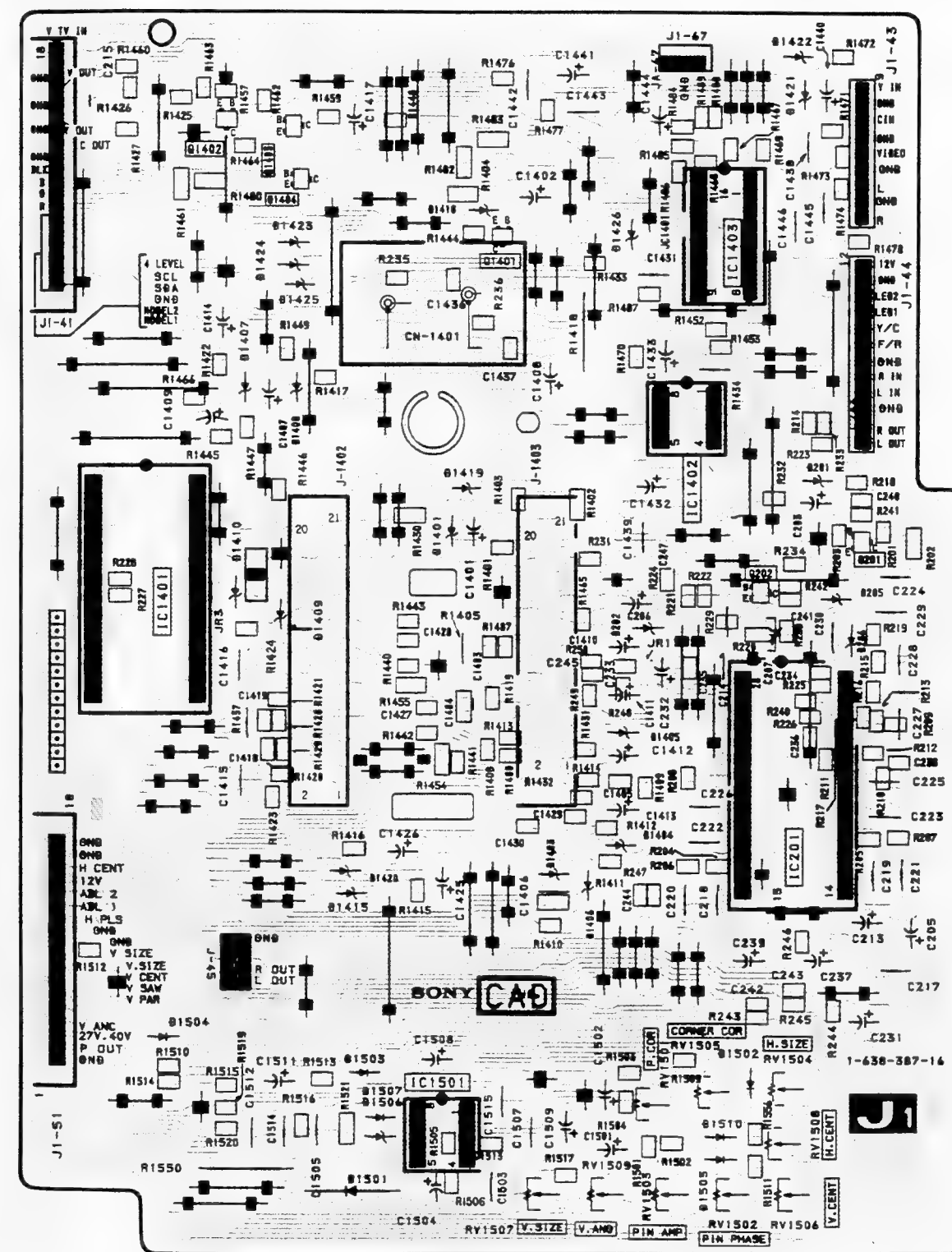
- Readings are taken with a colour-bar signal input.
- Readings are taken with 10M Ω digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- Circled numbers are waveform references.
- --- : B+ bus.
- : signal path. (RF)

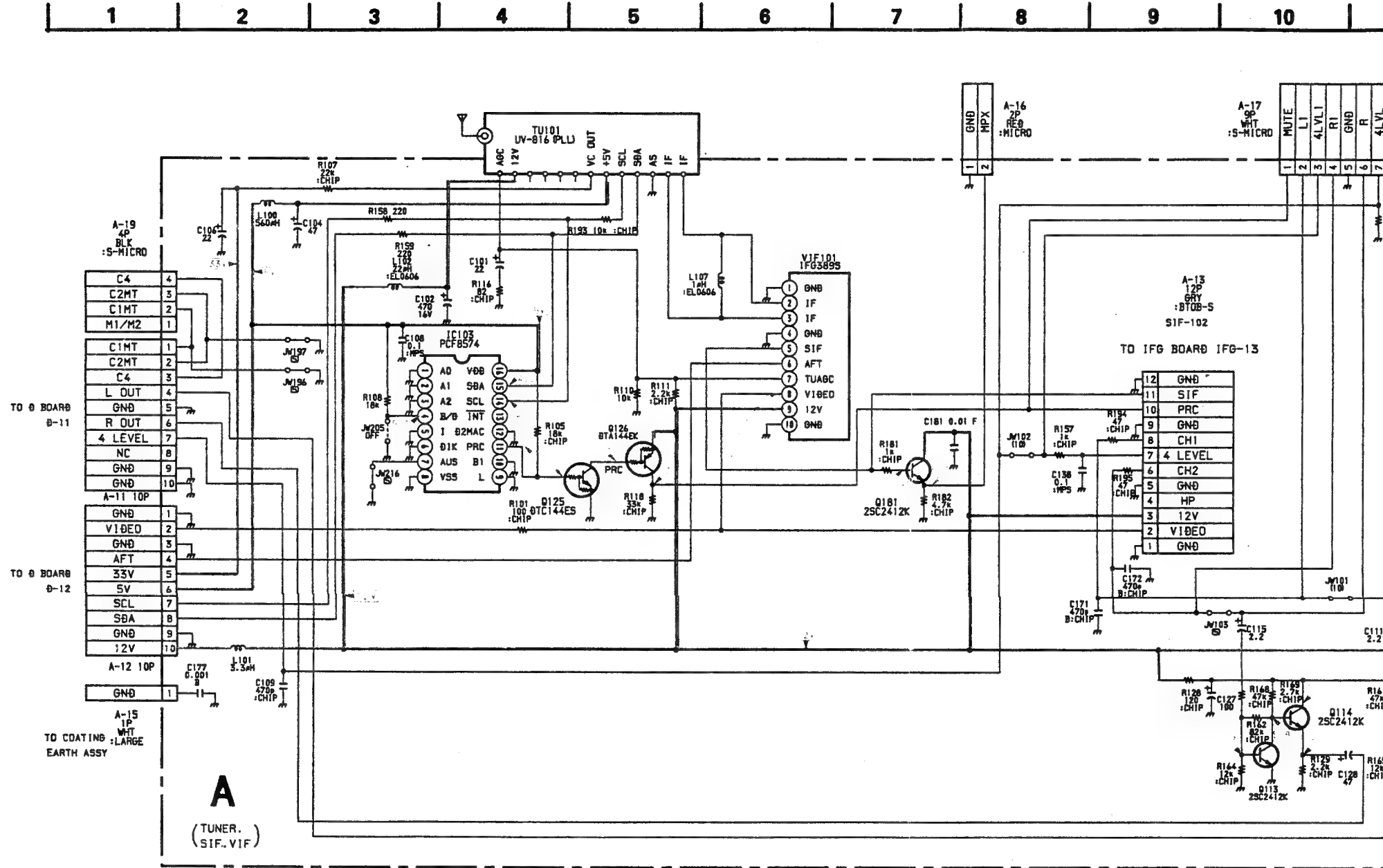
— F Board —



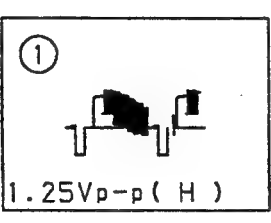
J₁ [AUDIO CONTROL, AV INPUT
Y/C INPUT, SCART VIDEO OUT
EAST-WEST CORRECTION

— J1 Board —



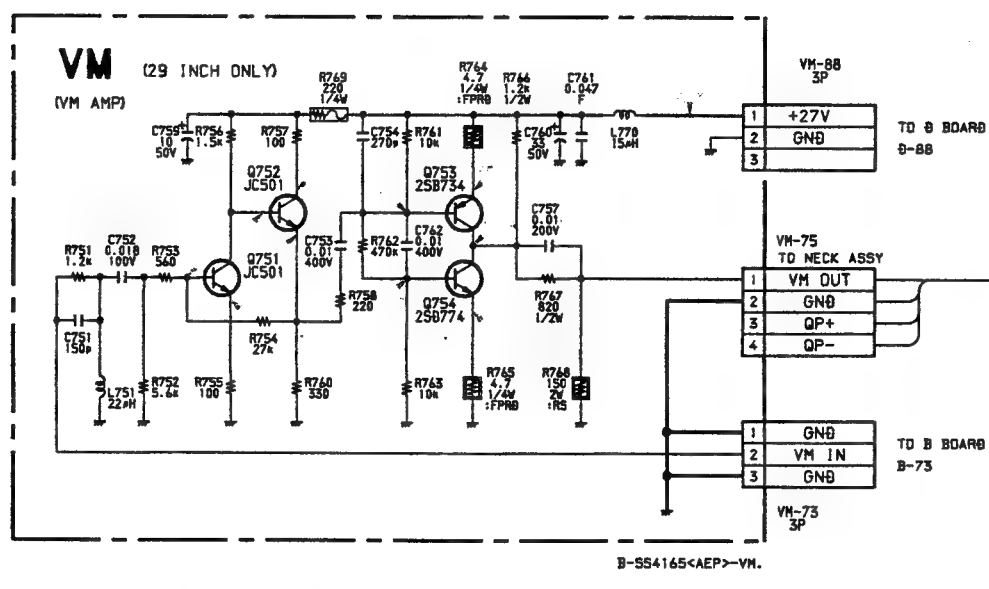
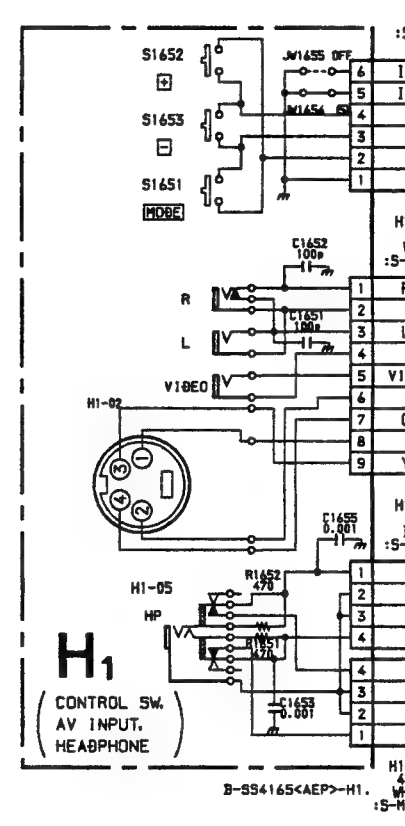
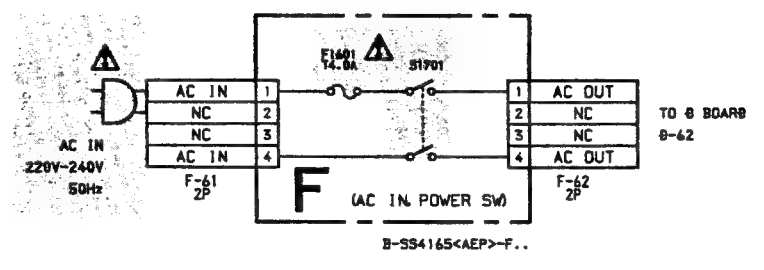


Waveform A Board



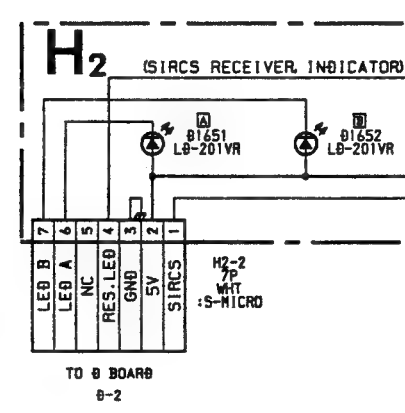
A Board

IC103	EXPANDER
Q113	AUDIO AMP
Q114	AUDIO AMP
Q115	AUDIO AMP
Q116	AUDIO AMP
Q125	MUTE SW
Q126	MUTE SW
Q181	BUFFER



VM Board (29 inch)

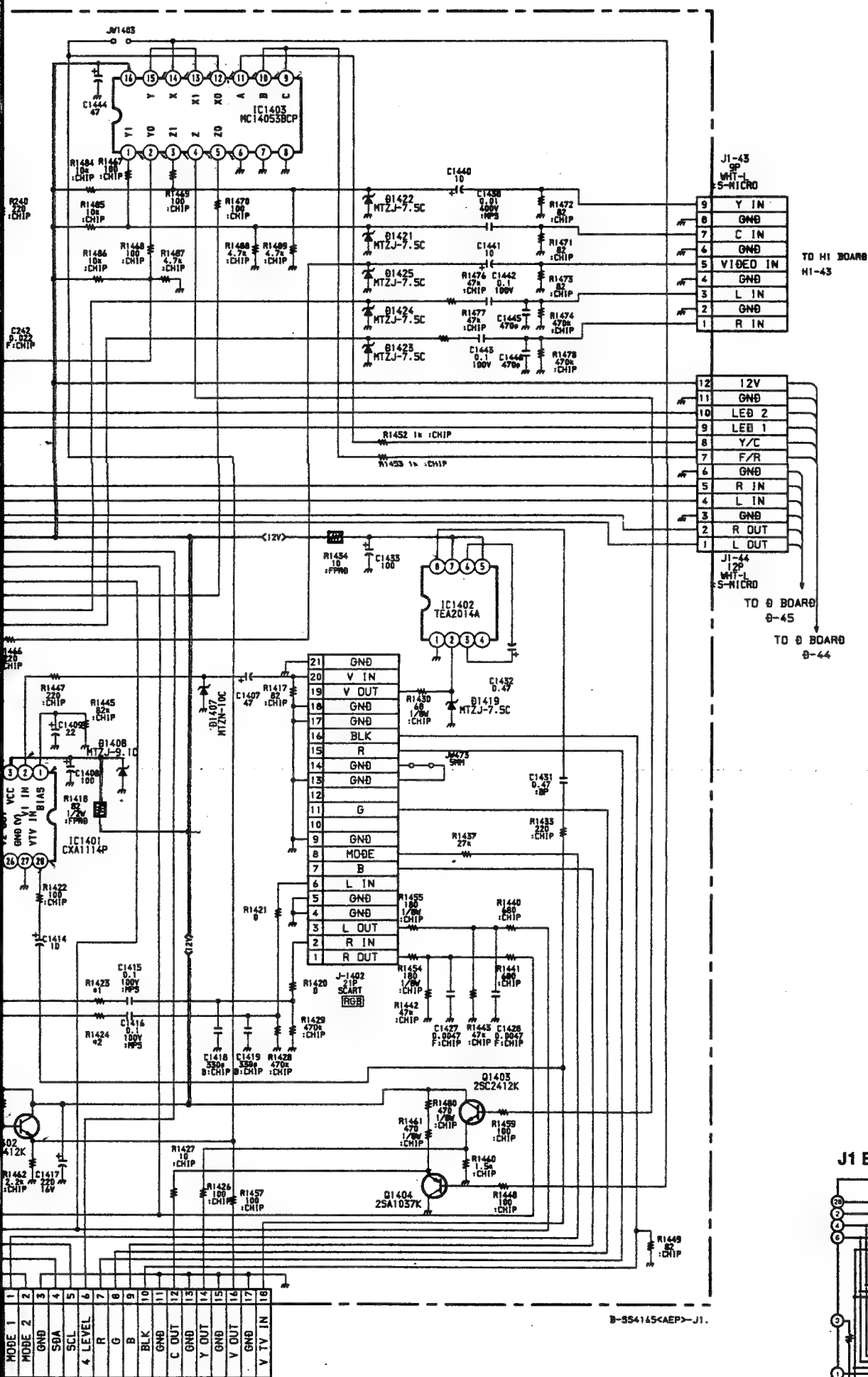
Q751	REF-AMP
Q752	REF-AMP
Q753	PUSH-PULL OUT
Q754	PUSH-PULL OUT



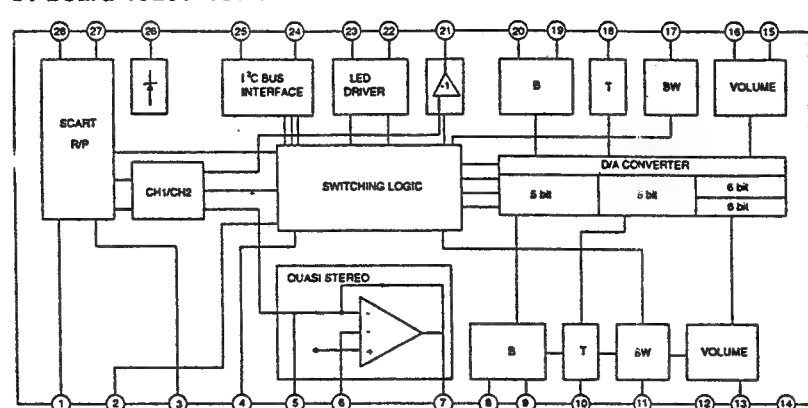
H2 Board

IC1651	INFRARED RECEIVER
D1651	AUDIO CHANNEL A
D1652	AUDIO CHANNEL B
D1654	RESET





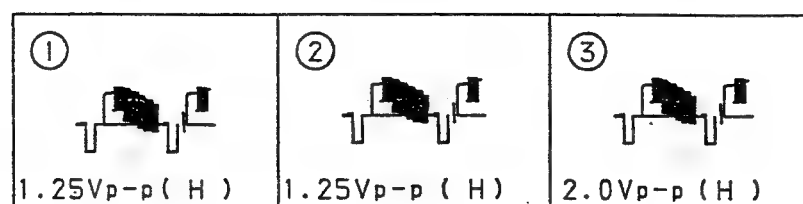
J1 Board IC201 TDA6200



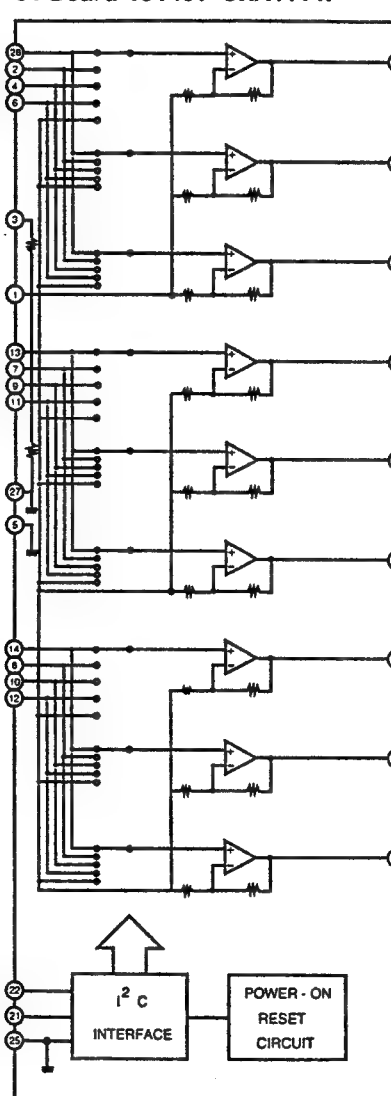
J1 Board

IC201	AUDIO CONTROL
IC1401	AV SW
IC1402	SCART VIDEO OUT
IC1403	COMPOSITE Y/C SW
IC1501	EAST-WEST CORRECTION
Q201	R AUDIO BUFFER
Q202	L AUDIO BUFFER
Q1401	VIDEO OUT
Q1402	VIDEO OUT BUFFER
Q1403	Y OUT BUFFER
Q1404	C OUT BUFFER
D201	PROTECT
D202	PROTECT
D205	PROTECT
D206	PROTECT
D1401	PROTECT
D1403	PROTECT
D1404	PROTECT
D1405	PROTECT
D1406	PROTECT
D1407	PROTECT
D1408	REGULATOR
D1409	PROTECT
D1410	PROTECT
D1415	PROTECT
D1418	PROTECT
D1419	PROTECT
D1420	PROTECT
D1421	PROTECT
D1422	PROTECT
D1423	PROTECT
D1424	PROTECT
D1425	PROTECT
D1426	PROTECT
D1501	PROTECT
D1502	CLIPPING H SIZE
D1503	CLIPPING V PARABOLA
D1504	CLIPPING H PULSE
D1505	REGULATOR
D1506	PROTECT
D1507	PROTECT
D1510	REGULATOR

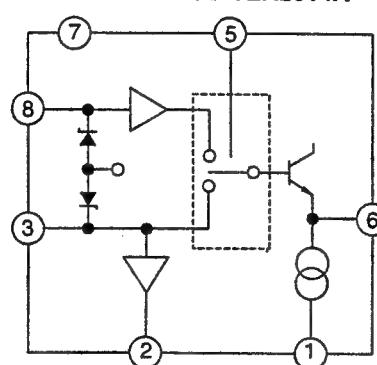
Waveforms J1 Board



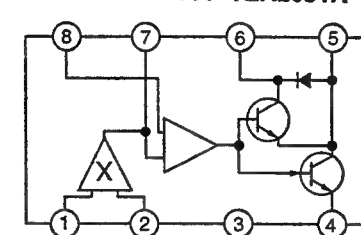
J1 Board IC1401 CXA1114P

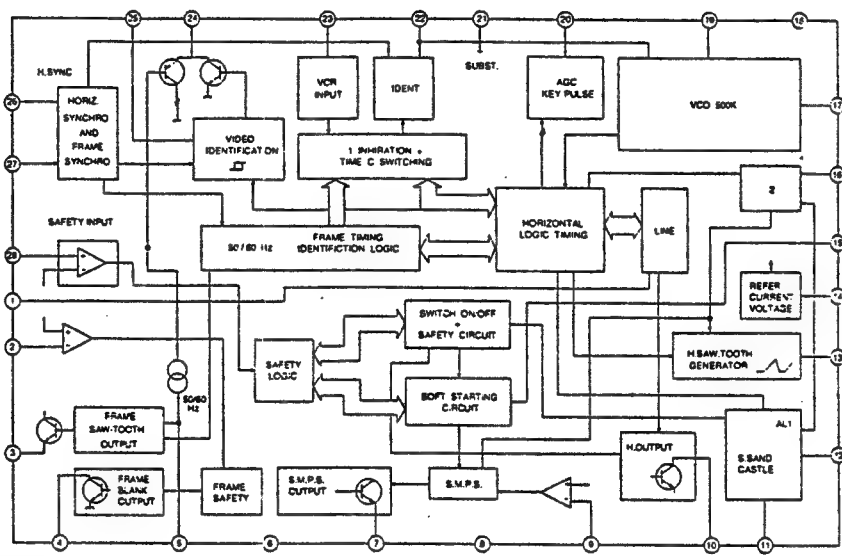
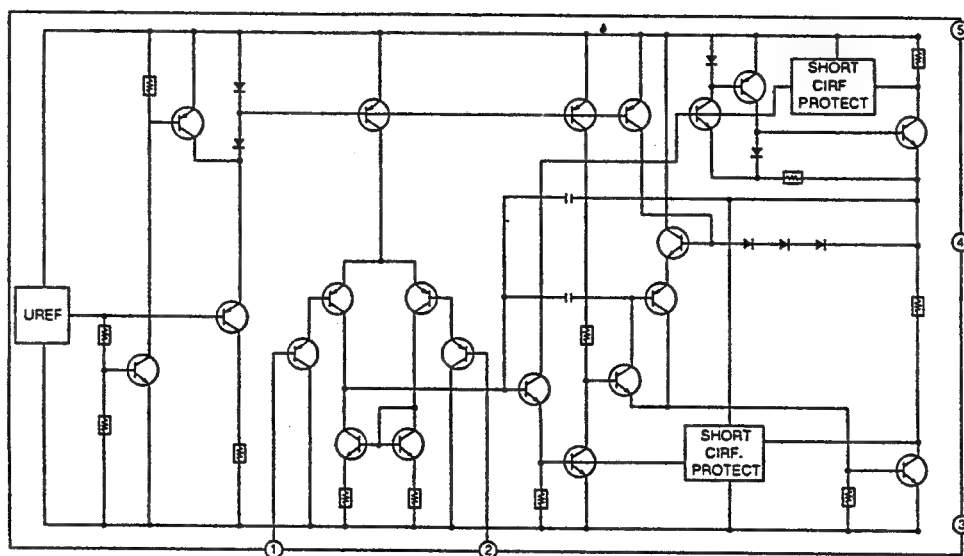


J1 Board IC1402 TEA2014A

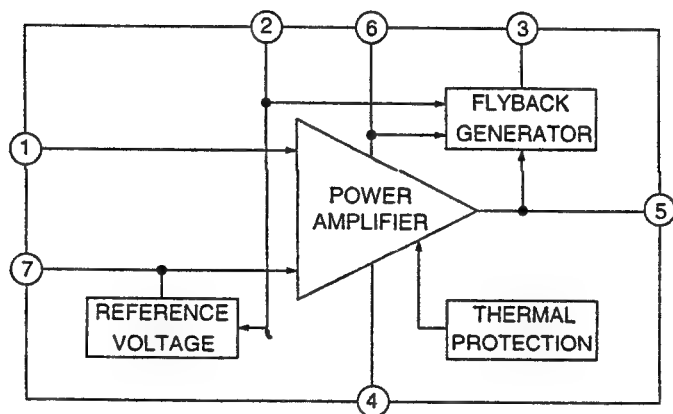


J1 Board IC1501 TEA2031A

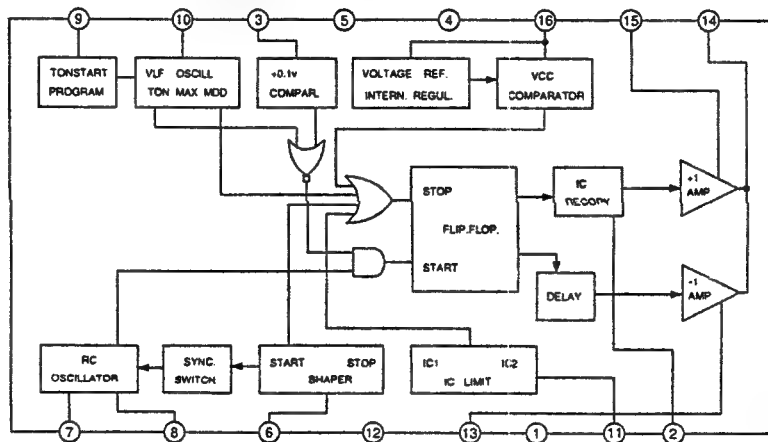




D Board IC502 TDA8170



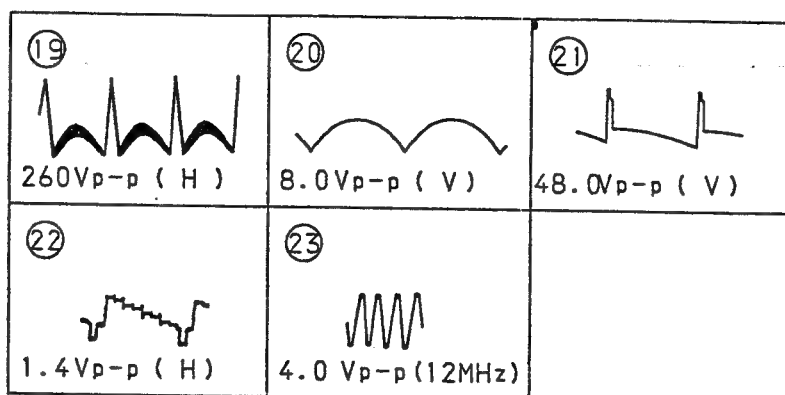
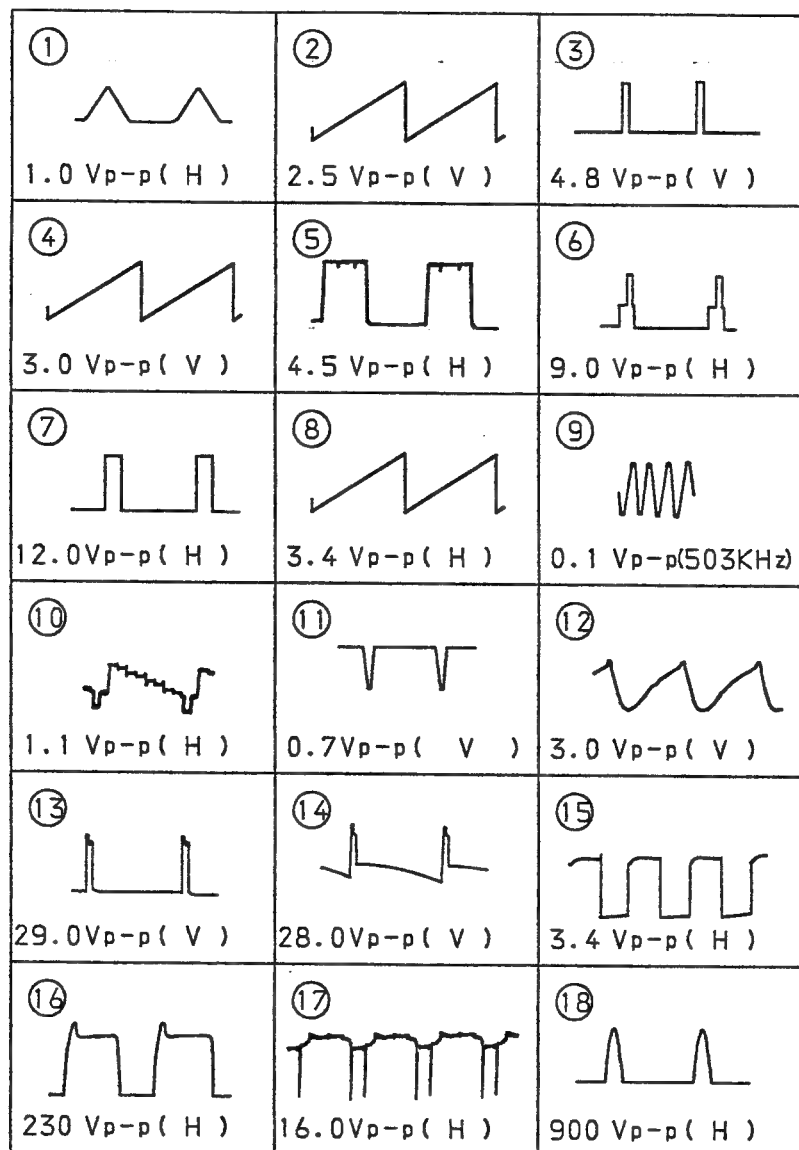
D Board IC601 TEA2260



D Board

IC001	TUNING CTL
IC002	ON SCREEN DISPLAY
IC003	AFT COMPARTOR
IC005	MY MEMORY
IC251	AUDIO OUT (L)
IC261	AUDIO OUT (R)
IC501	DEFLECTION PROCESSOR
IC502	VERTICAL OUT
IC601	PRIMARY SMRS CTL
IC604	+5V REGULATOR
IC608	+12V REGULATOR
Q001	50/60Hz SWITCH
Q002	BLK SWITCH
Q003	SYNC SEPARATOR
Q004	SYNC SEPARATOR
Q005	Y/C SWITCH
Q006	FRONT REAR SWITCH
Q007	MODE 2 SWITCH
Q008	MODE 1 SWITCH
Q009	MUTE SWITCH
Q010	RESET
Q251	AUDIO MUTE
Q261	AUDIO MUTE
Q271	VOLTAGE DETECT
Q502	CONSTANT CURRENT SC
Q505	VERTICAL CENTER
Q506	VERTICAL CENTER
Q507	CANAL +BLK LEVEL
Q598	VIDEO AMP
Q601	STBY SWITCH
Q602	REG OUT
Q603	STBY SWITCH
Q604	FAST ON/OFF
Q605	STBY SWITCH
Q606	STBY SWITCH
Q607	+12V REGULATOR
Q608	STBY SWITCH
Q609	STBY SWITCH
Q801	ABL AMP
Q804	HORIZONTAL OUT
Q805	HORIZONTAL DRIVER
D001	PROTECT
D002	PROTECT
D003	HUE CTL
D005	PROTECT
D006	VC VOLTAGE REGULATIO
D007	PLOT RESET
D008	CLIPPING SYNC LEVEL
D010	PROTECT
D011	PROTECT
D012	PROTECT
D013	PROTECT
D271	VOLTAGE DETECT
D272	DECOUPLING MUTE AUD
D501	START
D504	V PULSE OUT
D508	CANAL +BLK LEVEL
D509	V LIN
D511	PROTECT
D512	PROTECT
D513	PROTECT
D514	PROTECT
D515	PROTECT
D601	AC RECT
D602	REF RECT
D603	SMPS DRIVE 1
D604	SMPS DRIVE 2
D605	SMPS DRIVE 3
D606	+12V REC
D607	REF RECT
D608	PULSE CLIPPER
D609	FAST ON/OFF
D610	+14V RECT
D611	+135V RECT
D612	+7V RECT
D613	AF V RECT-1
D614	AF V RECT-2
D616	+12V REG
D617	PROTECT
D618	+12V REF
D619	FAST ON/OFF-2
D620	+12V REF
D621	FAST ON/OFF-3
D622	PROTECT
D623	DECOUPLING STBY
D624	DECOUPLING STBY
D630	+12V RECT
D801	+27V RECT
D802	+200V RECT
D803	G2 RECT
D804	H CENTER-1
D805	H CENTER-2
D806	H DAMPER-1
D807	H DAMPER-2
D808	PIN DAMPER

Waveform D Board

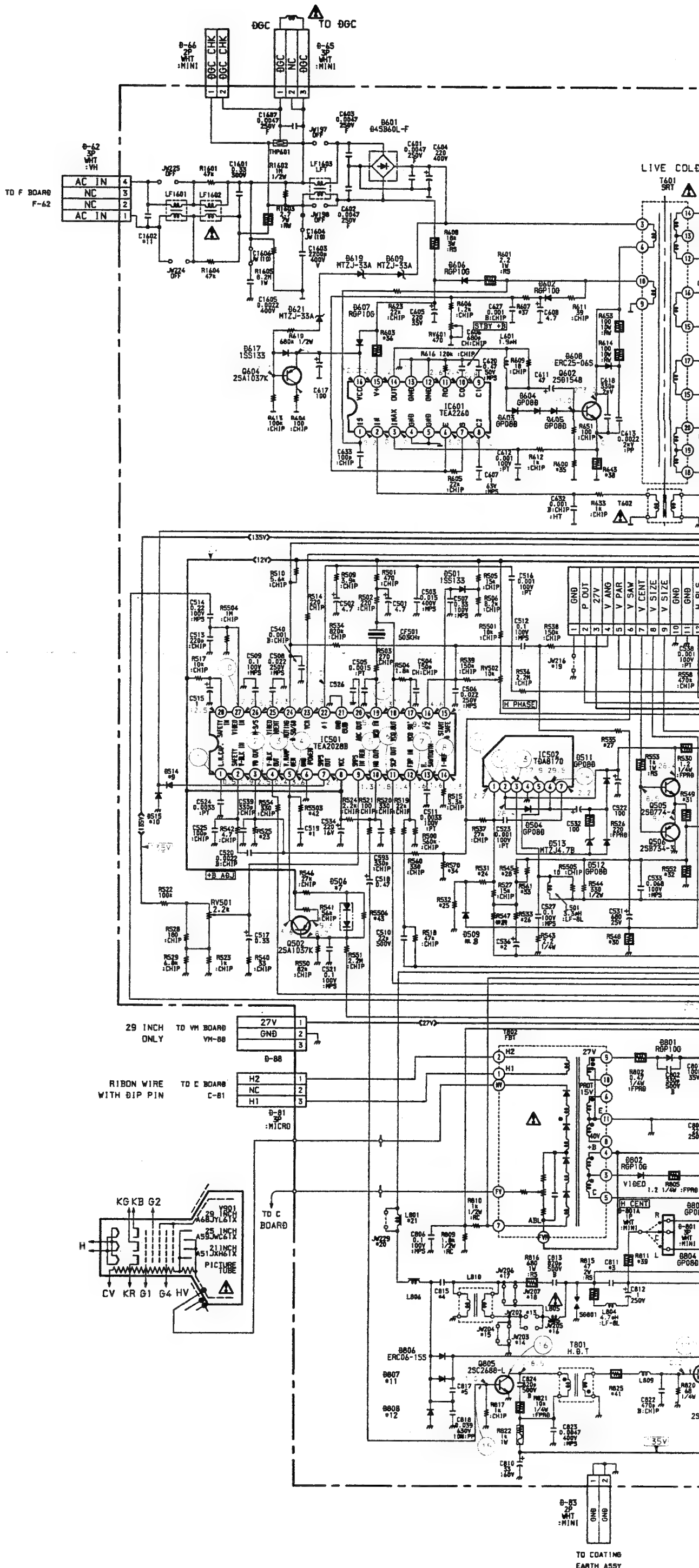
D Board
Mark List

	21 inch	25 inch	29 inch
*1 C519	0.47	0.47	0.33
*2 C536	4.7uF	10uF	10uF
*3 C811	1uF	2uF	2uF
*4 C815	1uF	1uF	0.82uF
*5 C817	0.0106uF	0.015uF	0.017uF
*6 C821	680pF	680pF	470pF
*7 D506	DA204K	DA204K	
*8 D509		1SS133	1SS133
*9 D514	5MM (JW)	5MM (JW)	1SS133
*10 D515			1SS133
*11 D807		ERC0615S	ERC06-15S
*12 D808	ERD28-08S	ERD29-08J	ERD29-08J
*13 JW202			5MM
*14 JW203	5MM	5MM	
*15 JW204	5MM	5MM	
*16 JW205			5MM
*17 JW206	5MM	5MM	
*18 JW207	5MM	5MM	
*19 JW216	15MM	15MM	
*20 JW229	10MM	10MM	
*21 L801			3.9MMH
*22 R093	10K		10K
*23 R525	1K	1K	
*24 R531		120K	120K
*25 R532		1K	1K
*26 R533	180	0	0
*27 R535	4.7M	2.2M	2.2M
*28 R545	39K	22K	22K
*29 R547	5.6K	3.3K	3.3K
*30 R548	1.2	1	1
*31 R549	470	390	390
*32 R552	1.2K		
*33 R561			270K
*34 R570			680
*35 R600		1	1
*36 R603	15	12	12
*37 R607	4.7K	4.7K	5.6K
*38 R643	0.15 2W	0.12 2W	0.12 2W
*39 R811	100 1W	22 2W F	22 2W F
*40 R812	75K 1/2W	68K 1/2W	51K 1/2W
*41 R825	1 1W	0.47 1W	0.47 1W
*42 R5503	4.7	4.7	10
*43 R5506			12K

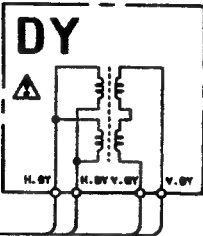
NOT MOUNTED

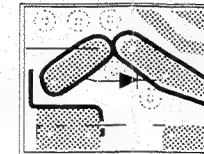
board

001	TUNING CTL
002	ON SCREEN DISPLAY
003	AFT COMPARATOR
005	MY MEMORY
251	AUDIO OUT (L)
261	AUDIO OUT (R)
301	DEFLECTION PROCESSOR
302	VERTICAL OUT
301	PRIMARY SMRS CTL
304	+5V REGULATOR
308	+12V REGULATOR
001	50/60Hz SWITCH
002	BLK SWITCH
003	SYNC SEPARATOR
004	SYNC SEPARATOR
005	Y/C SWITCH
006	FRONT REAR SWITCH
007	MODE 2 SWITCH
008	MODE 1 SWITCH
009	MUTE SWITCH
010	RESET
251	AUDIO MUTE
261	AUDIO MUTE
271	VOLTAGE DETECT
202	CONSTANT CURRENT SOURCE
205	VERTICAL CENTER
206	VERTICAL CENTER
207	CANAL +BLK
208	VIDEO AMP
201	STBY SWITCH
202	REG OUT
203	STBY SWITCH
204	FAST ON/OFF
205	STBY SWITCH
206	STBY SWITCH
207	+12V REGULATOR
208	STBY SWITCH
209	STBY SWITCH
201	ABL AMP
204	HORIZONTAL OUT
205	HORIZONTAL DRIVER
001	PROTECT
002	PROTECT
003	HUE CTL
005	PROTECT
006	VC VOLTAGE REGULATION
007	PLOT RESET
009	CLIPPING SYNC LEVEL
010	PROTECT
011	PROTECT
012	PROTECT
013	PROTECT
014	PROTECT
015	PROTECT
001	AC RECT
002	REF RECT
003	SMPS DRIVE 1
004	SMPS DRIVE 2
005	SMPS DRIVE 3
006	+12V REC
007	REF RECT
008	PULSE CLIPPER
009	FAST ON/OFF
010	+14V RECT
011	+135V RECT
012	+7V RECT
013	AF V RECT-1
014	AF V RECT-2
016	+12V REG
017	PROTECT
018	+12V REF
019	FAST ON/OFF-2
020	+12V REF
021	FAST ON/OFF-3
022	PROTECT
023	DECOUPLING STBY
024	DECOUPLING STBY
030	+12V RECT
031	+27V RECT
032	+200V RECT
033	G2 RECT
034	H CENTER-1
035	H CENTER-2
036	H DAMPER-1
037	H DAMPER-2
038	PIN DAMPER

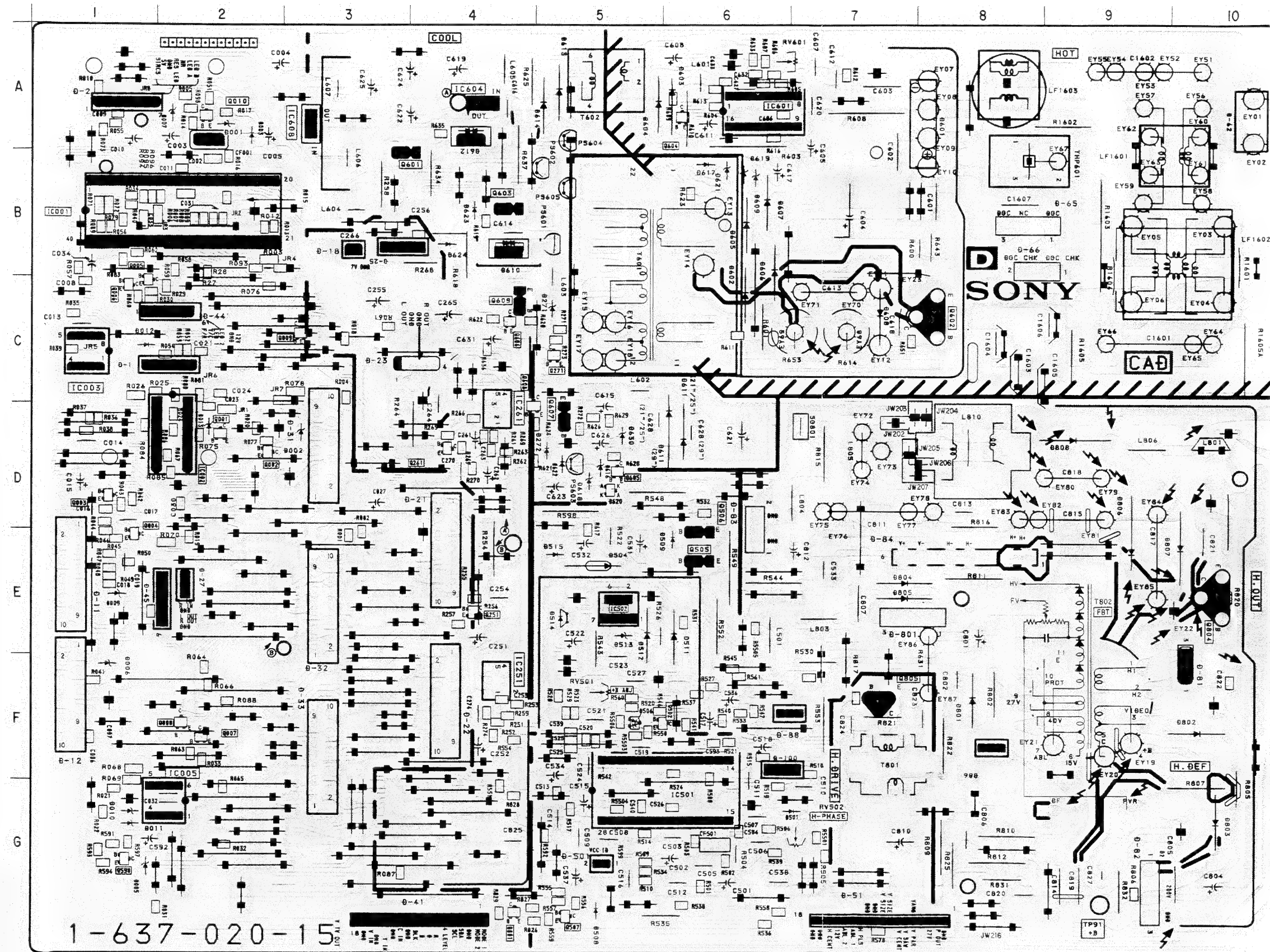






D TUNING CONTROL,
POWER CONTROL,
AUDIO OUT, HV OUT**NOTE:**
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock during inspection or repair.

- D Board -



IC	D013 D - 2
IC001 B - 2	D271 C - 5
IC002 D - 2	D272 D - 5
IC003 C - 1	D501 G - 7
IC005 G - 2	D504 E - 5
IC251 F - 4	D506 F - 5
IC261 D - 4	D508 H - 5
IC501 G - 6	D509 E - 6
IC502 E - 5	D511 E - 6
IC601 A - 6	D512 E - 5
IC604 A - 4	D513 E - 5
IC608 A - 3	D601 A - 8
	D602 C - 6
	D603 A - 6
	D604 A - 5
	D605 B - 6
	D606 B - 6
	D607 B - 6
	D608 C - 7
	D609 B - 6
	D610 B - 4
	D611 D - 6
	D612 A - 4
	D613 A - 5
	D614 A - 5
	D616 D - 5
	D617 B - 6
	D618 D - 5
	D619 B - 6
	D620 D - 5
	D621 B - 6
	D622 D - 5
	D623 B - 4
	D624 B - 4
	D630 D - 5
	D801 F - 8
	D802 F - 10
	D803 G - 10
	D804 E - 7
	D805 E - 7
	D806 E - 9
	D807 E - 10
	D808 D - 9
	TP
	TP91 J - 9
DIODE	
D003 A - 2	
D002 D - 3	
D003 A - 2	
D005 G - 1	
D006 F - 1	
D007 A - 2	
D009 E - 1	
D010 G - 1	
D011 G - 1	
D012 C - 1	

B [CHROMA DECODER]

B BOARD

IC	
IC301	A-2
IC302	B-5
IC303	D-5
IC331	C-1
IC332	D-3
IC1301	B-4

- B Board -

TRANSISTOR

Q301	B-4
Q303	A-6
Q305	A-4
Q306	D-4
Q311	B-2
Q312	B-2
Q313	B-2
Q316	B-2
Q330	C-5
Q331	C-3
Q332	D-6
Q333	D-5
Q334	C-4
Q381	B-5
Q382	B-4
Q1301	C-4
Q1305	C-5
Q1306	C-4

DIODE

D301	A-1
D302	A-2
D303	A-2
D304	B-2
D305	A-1
D307	A-5
D309	A-5
D310	A-4
D311	A-4
D312	A-4
D313	A-4
D314	A-3
D315	A-1
D316	A-1
D317	A-1
D318	A-1
D319	A-1
D320	A-1
D331	C-2
D332	C-2
D333	B-2
D350	D-2

TRIMMER

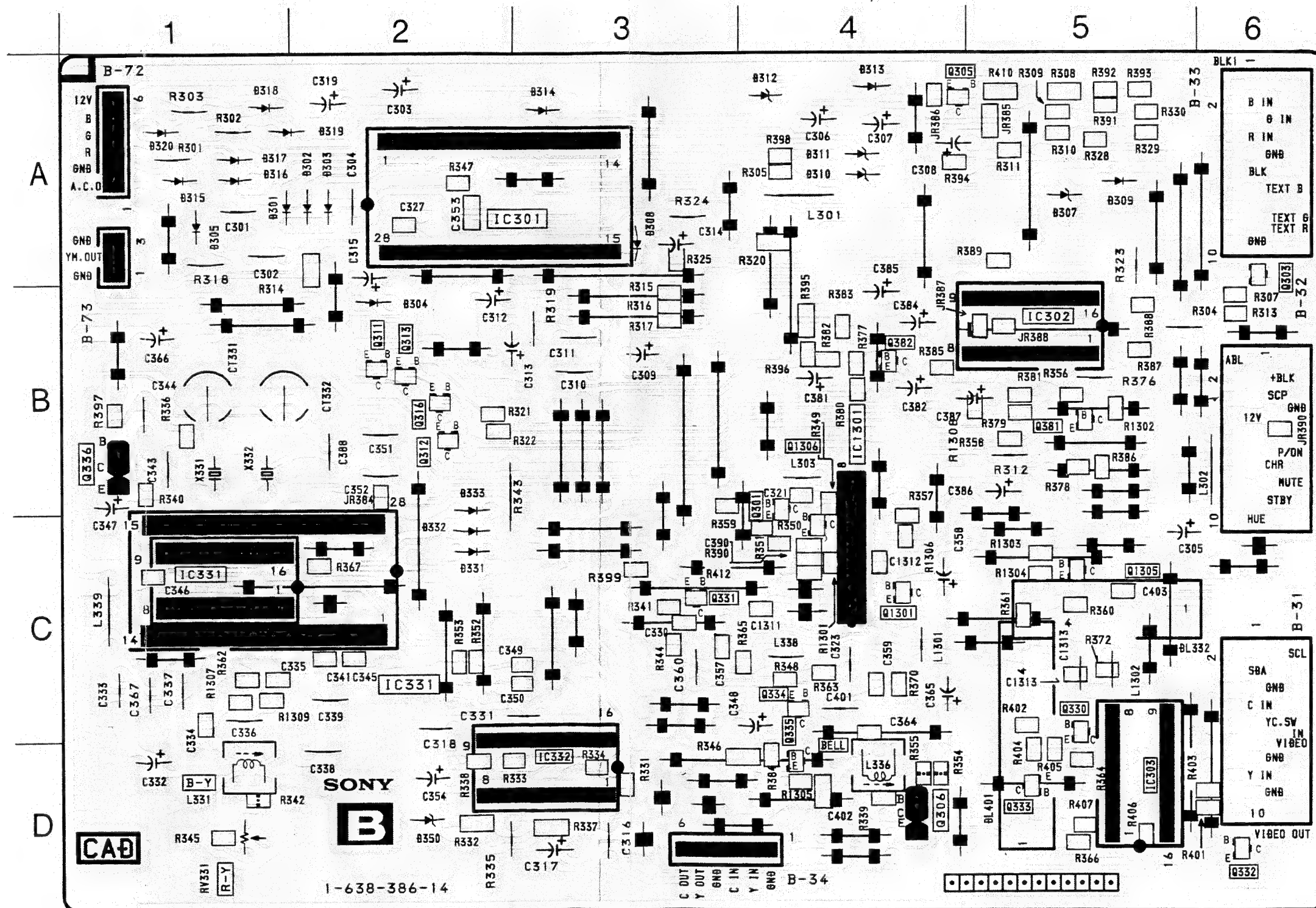
CT331	B-1
CT332	B-1

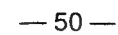
COIL

L331	D-1
L336	D-4

VARIABLE
RESISTOR

RV331	D-1
-------	-----





B Board

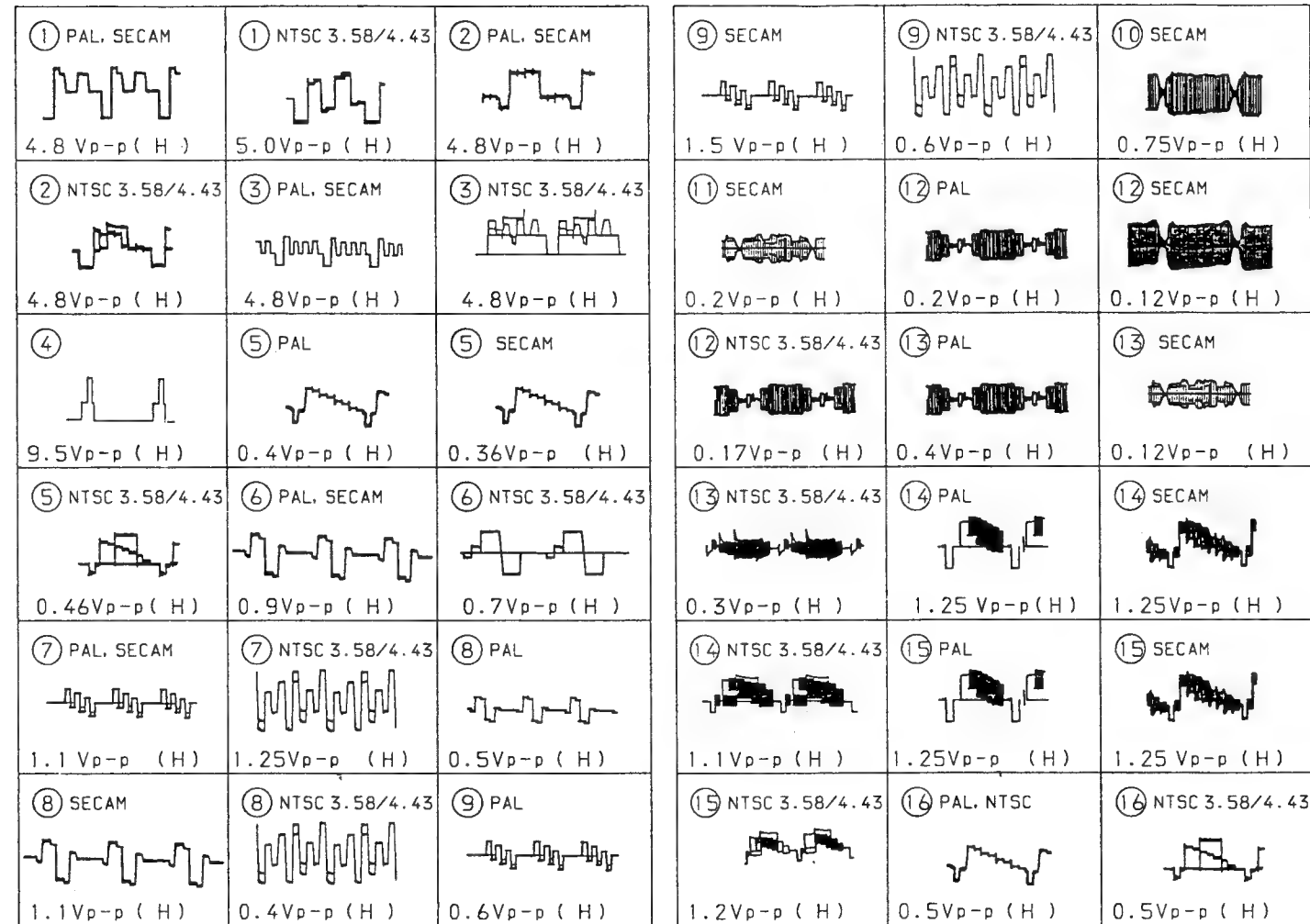
IC301	VIDEO PROCESSOR
IC302	D/A CONVERTER
IC303	Y/C COMP SWITCH
IC331	COLOR PROCESSOR
IC332	IH-DELAY
IC1301	SHARPNESS CONTROL (29 inch)
Q301	Y AMP (21,25 inch)
Q303	STBY SWITCH
Q305	ANTI PRIORITY SCART
Q306	VIDEO BUFFER (HUE)
Q311	ON SCREEN DISPLAY SWITCH
Q312	CANRL +BLK
Q313	ON SCREEN DISPLAY
Q316	FAS PICTURE MUTE SWITCH
Q330	VIDEO AMP
Q331	NTSC SWITCH
Q332	VIDEO BUFFER
Q333	Y AMP
Q334	PAL/NTSC SWITCH
Q335	SECAM SWITCH
Q381	MUTE
Q1301	Y BUFFER
Q1305	Y OUT (29 inch)
Q1306	Y OUT
D301	ACO AT STBY
D302	ACO AT STBY
D303	ACO AT STBY
D304	DECOUPLING BLK
D305	PROTECT
D307	PROTECT
D309	PROTECT
D310	PROTECT
D311	PROTECT
D312	PROTECT
D313	PROTECT
D314	PROTECT
D315	PROTECT
D316	PROTECT
D317	PROTECT
D318	PROTECT
D319	PROTECT
D320	PROTECT
D331	SECAM SWITCH
D332	SECAM SWITCH
D333	SECAM SWITCH
D350	PROTECT

B Board
* Mark List

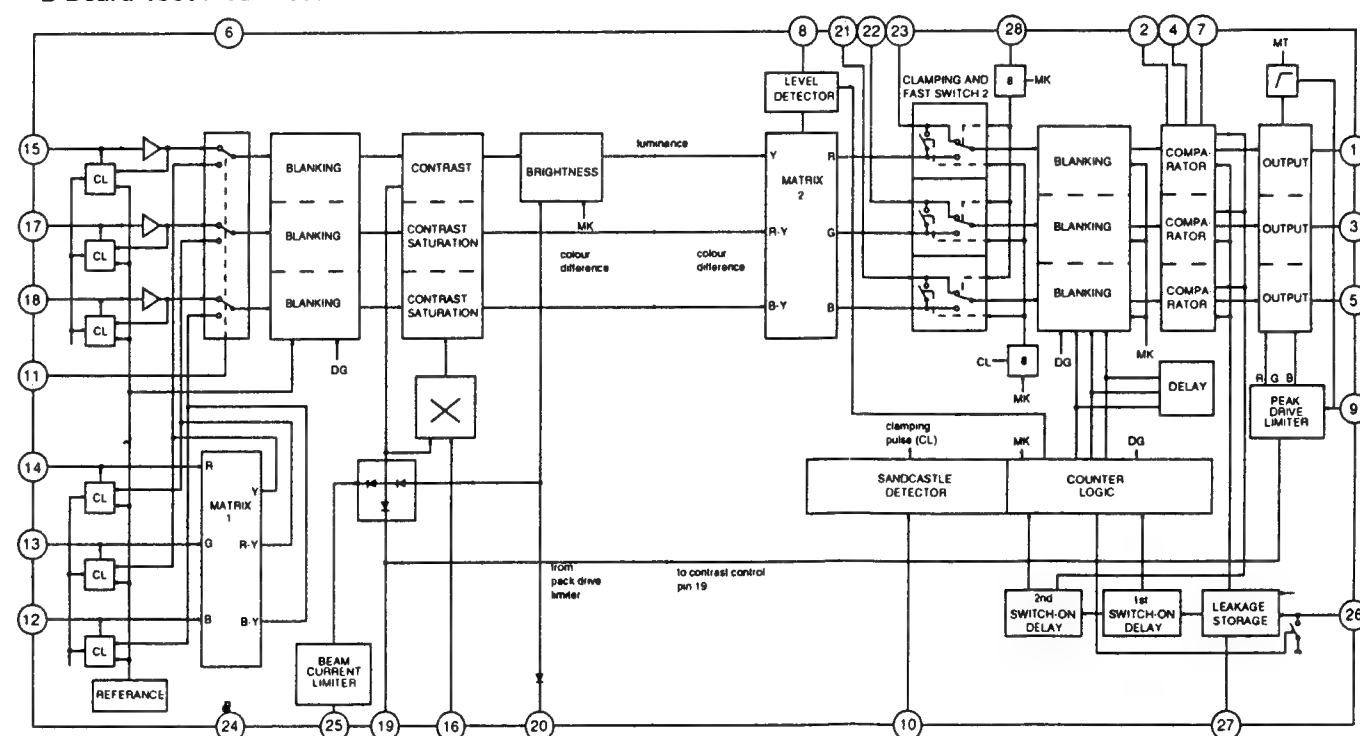
	21 inch	25 inch	29 inch
*1 C1311	56pF	56pF	33pF
*2 D350	MTZJ 5.6C	MTZJ 5.6B	MTZJ 5.6B
*3 R322	1K	1K	1.2K
*4 R377	330	330	1.8K
*5 R382	270K	220K	180K
*6 R390	220	220	100
*7 R1308	0	0	4.7K

		PAL	SECAM	NTSC3.58	NTSC4.43
IC301	(8)	0.1	0.1	5.8	0.1
	(26)	6.7	6.8	5.1	6.5
IC331	(19)	3.1	3.6	3.1	2.8
	(21)	3.0	3.5	2.9	2.7
	(22)	5.6	5.6	7.1	7.2
	(23)	7.5	7.0	5.6	5.6
	(25)	0.1	0.1	0.1	5.8
	(26)	0.1	0.1	5.8	0.1
	(27)	0.1	5.8	0.1	0.1
	(28)	5.9	0.1	0.1	0.1
Q331	(B)	0.1	0.1	5.8	0.1
	(C)	0.3	0.4	0	0.8
Q333	(B)	4.4	4.4	4.4	4.4
Q334	(B)	4.9	0.1	4.8	4.8
Q335	(B)	0.1	4.8	0.1	0.1

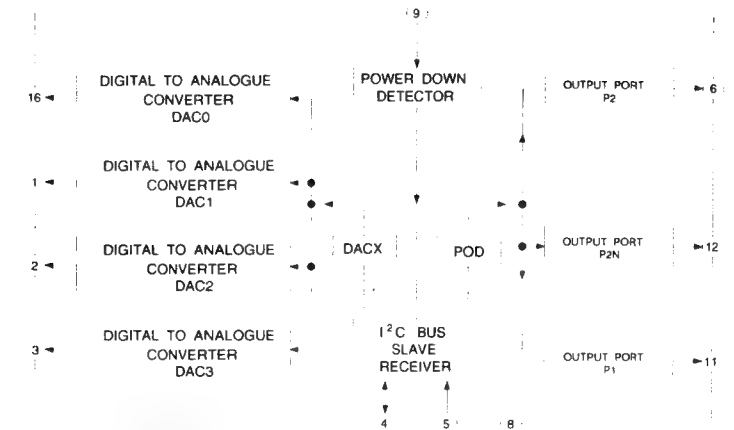
Waveform B Board



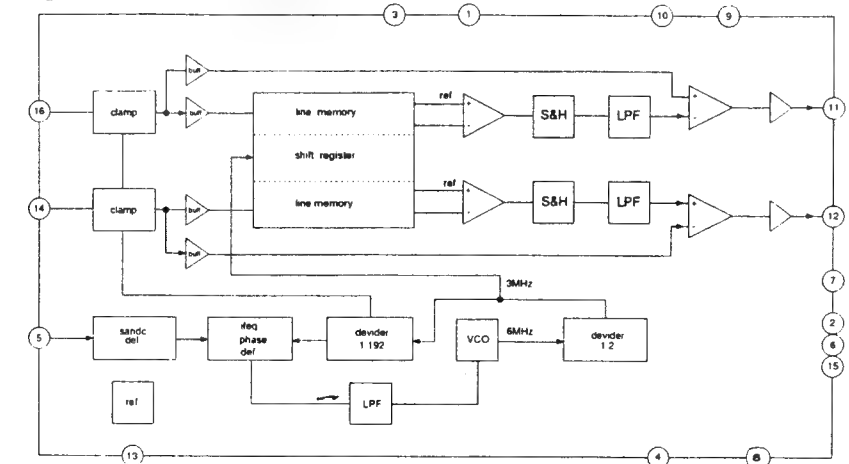
B Board IC301 TDA4580V7



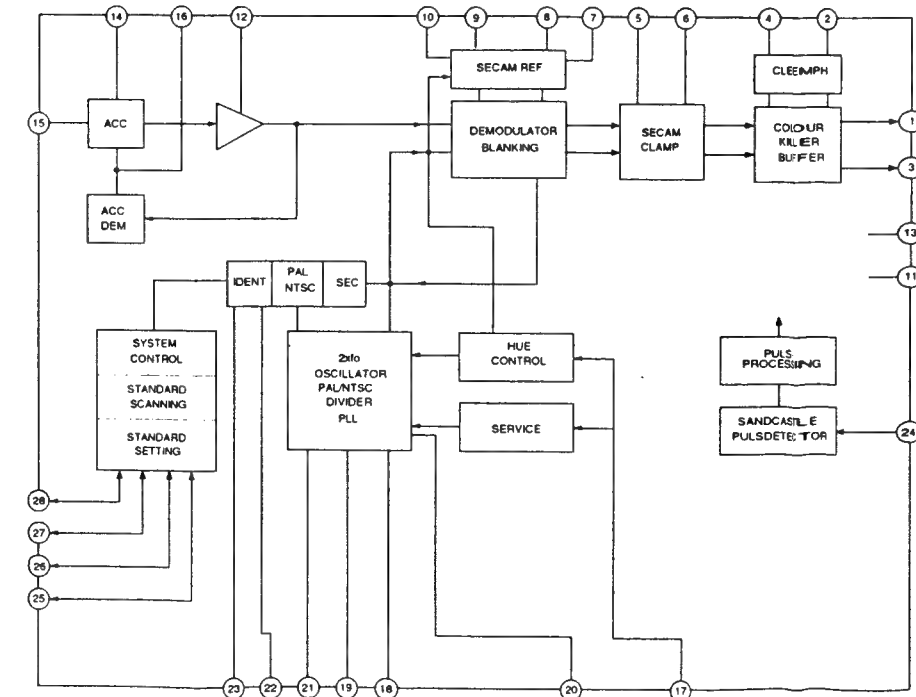
B Board IC302 TDA8442-N3

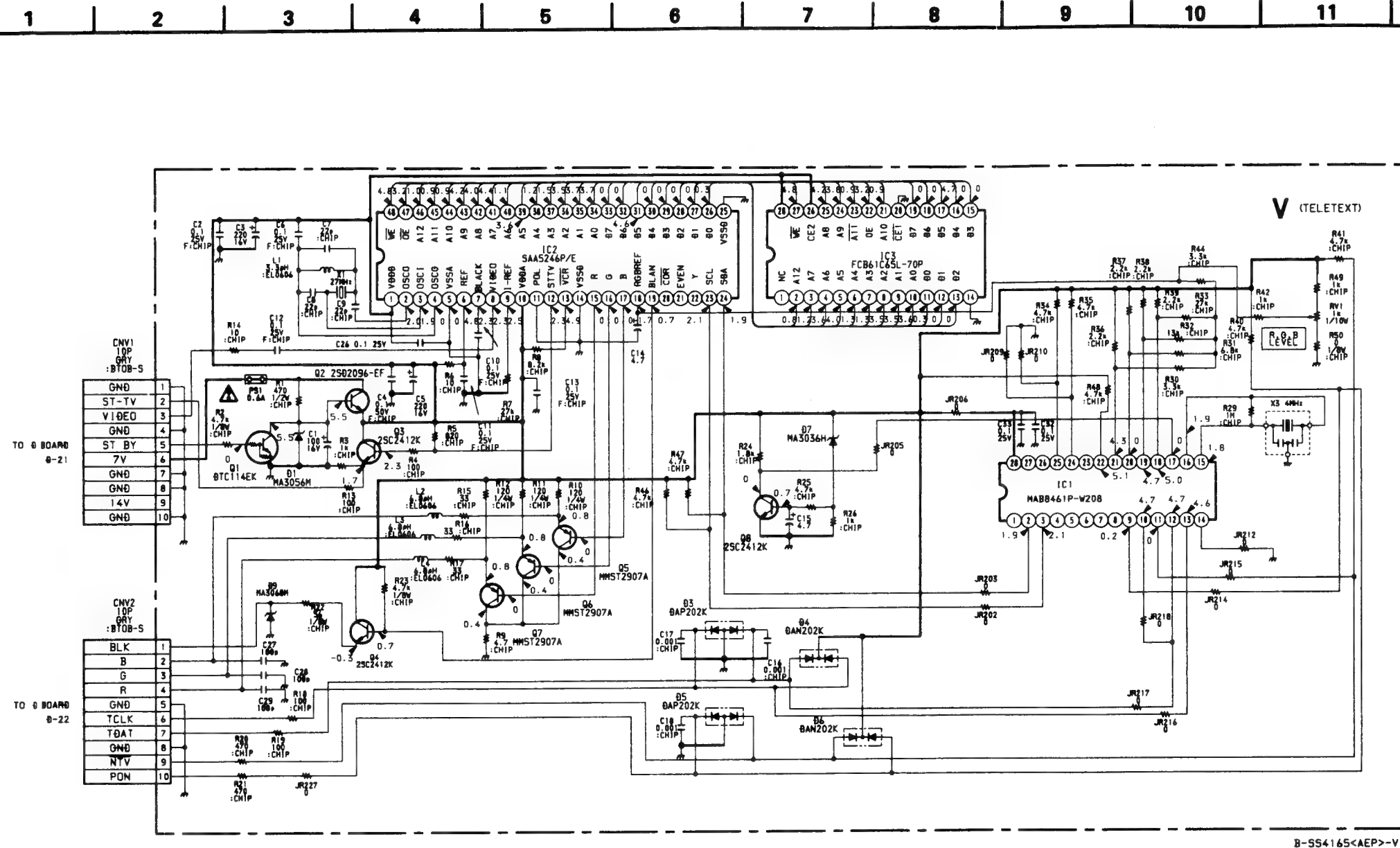


B Board IC332 TDA4660V2

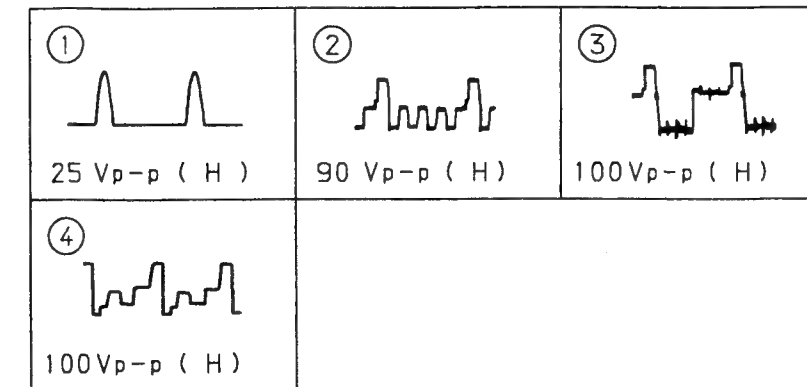


B Board IC331 TDA4650





Waveform C Board



C Board
*** Mark List**

		21 inch	25 inch	29 inch
*1	C703	270pF	270pF	330pF
*2	C705	180pF	220pF	270pF
*3	C712	270pF	270pF	330pF
*4	R707	430	390	390
*5	R710	100K	68K	68K
*6	R713	160K	120K	120K
*7	R737	390K	820K	470K

V Board

IC1	MICRO-CONT
IC2	IVT
IC3	STATIC-RAM
Q1	STAND-BY
Q2	5V REG
Q3	SYNC BUFFER
Q4	BLK OUT
Q5	B OUT
Q6	G OUT
Q7	R OUT
Q8	RESET
D1	5V REG
D3	PROTECT
D4	PROTECT
D5	PROTECT
D6	PROTECT
D7	PROTECT
D9	PROTECT

16

17

18

19

20

21

22

23

24

25

26

27

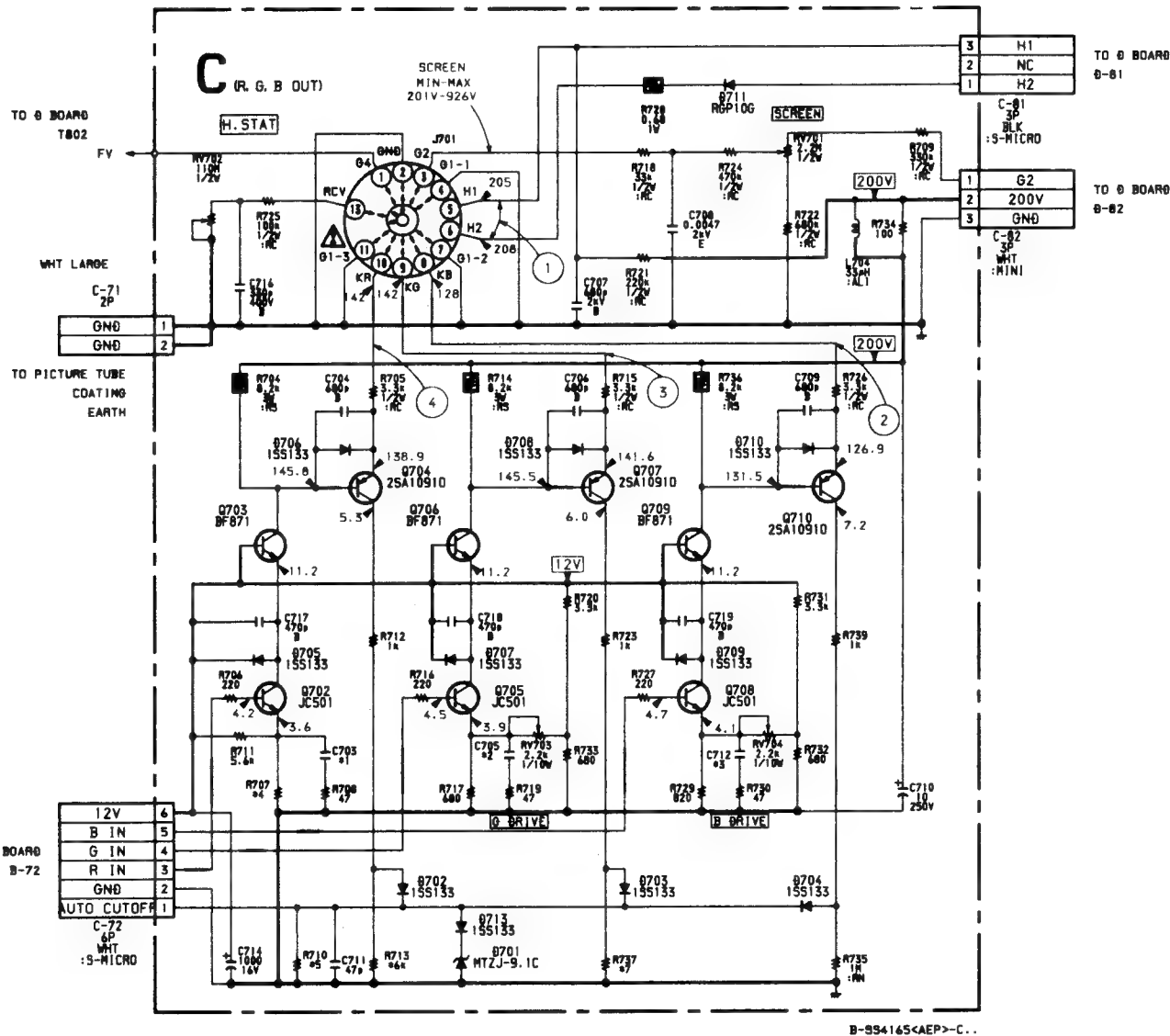
28

29

30

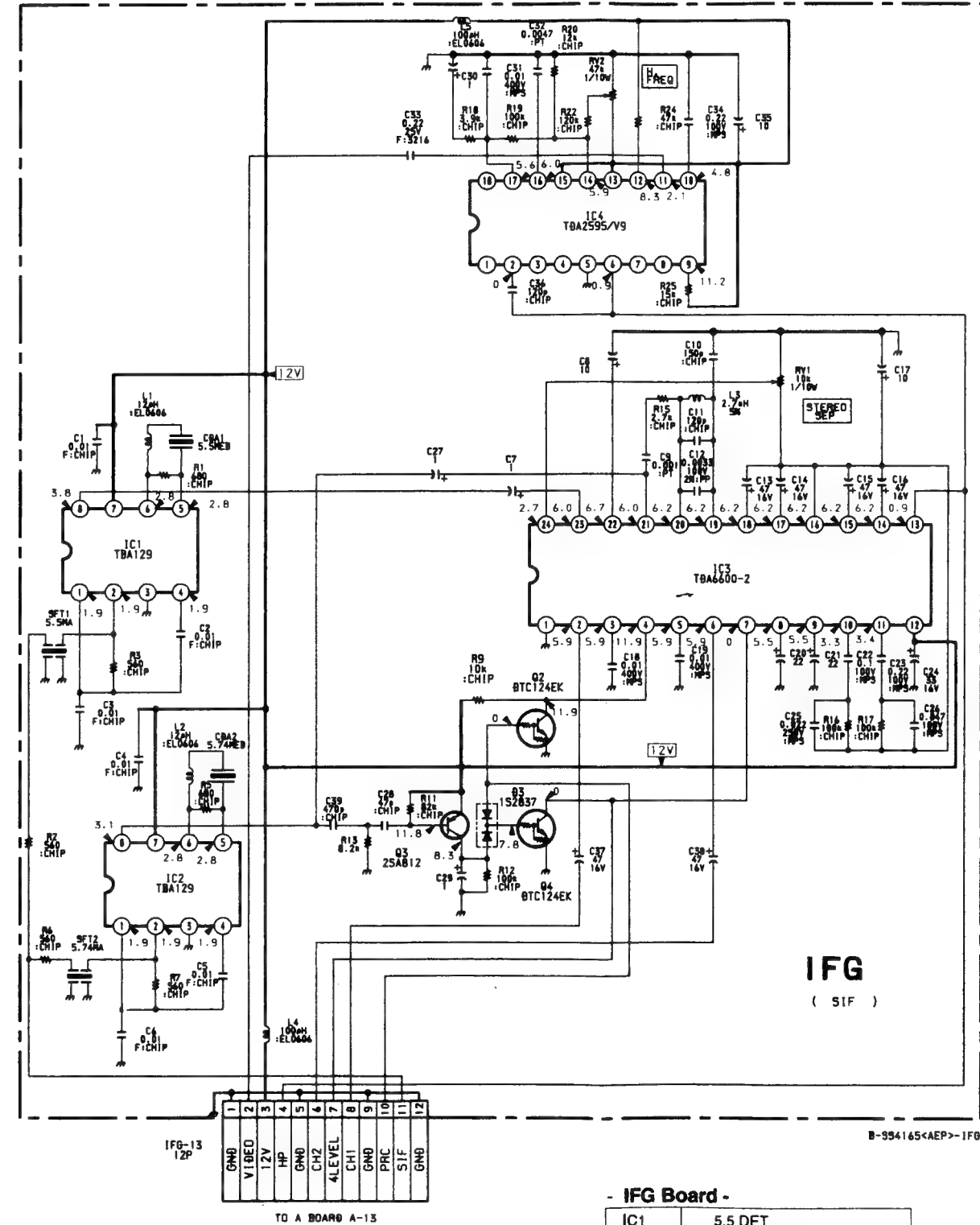
③

100Vp-p (H)



C Board

Q702	R DRIVE
Q703	R OUT
Q704	ACO MEASURING
Q705	G DRIVE
Q706	G OUT
Q707	ACO MEASURING
Q708	B DRIVE
Q709	B OUT
Q710	ACO MEASURING
D701	PROTECT
D702	PROTECT
D703	PROTECT
D704	PROTECT
D705	PROTECT
D706	PROTECT
D707	PROTECT
D708	PROTECT
D709	PROTECT
D710	PROTECT
D711	HEATER VOLTAGE REC
D713	PROTECT



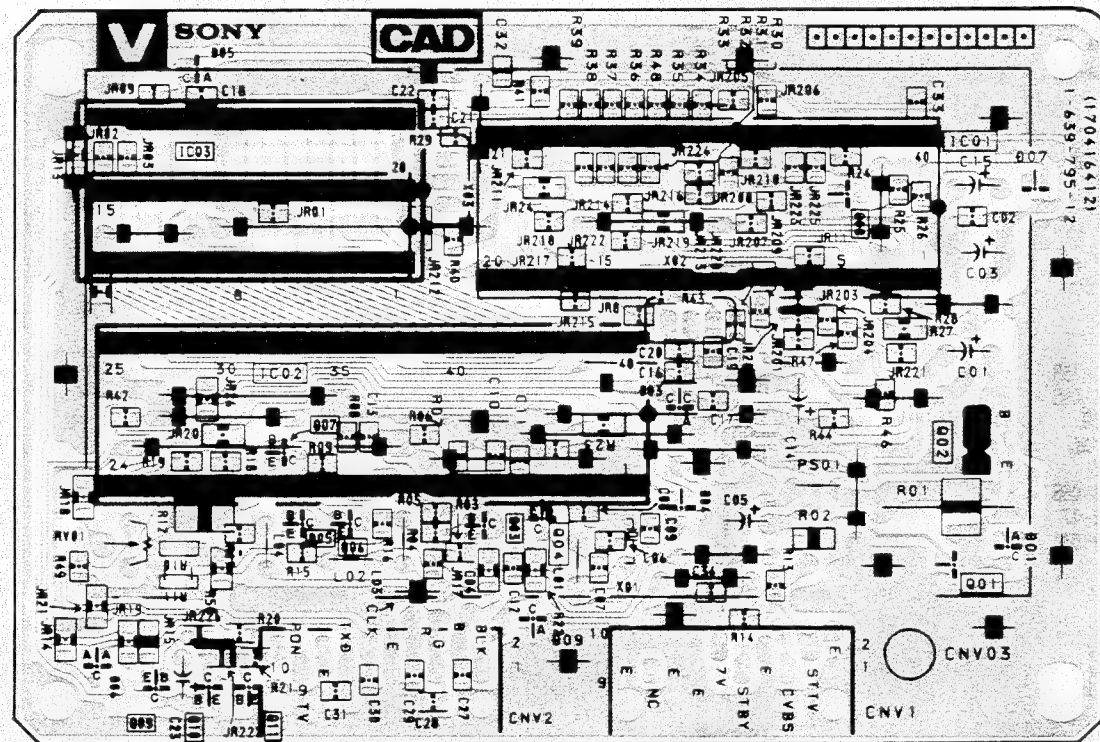
- IFB Board -

IC1	5.5 DET
IC2	SIF DET AMP
IC3	H FREQ AMP
IC4	HORIZ COMBINATION
Q2	SW
Q3	SW
Q4	SW
Q5	SW

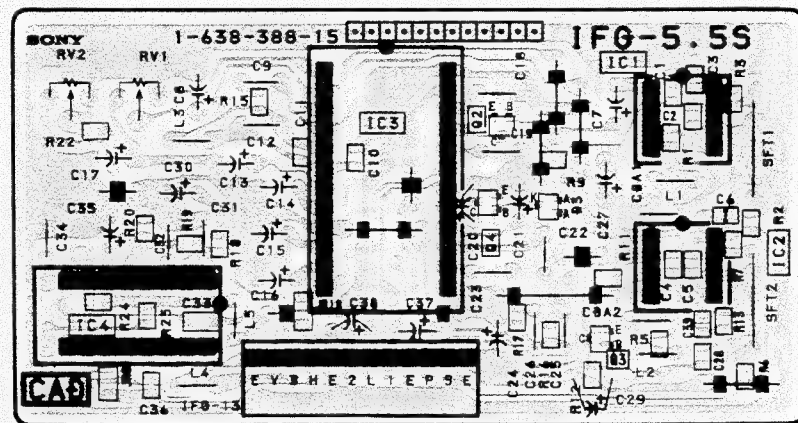
V [TELE TEXT] **IFG** [SIF]

C [R, G, B OUT]

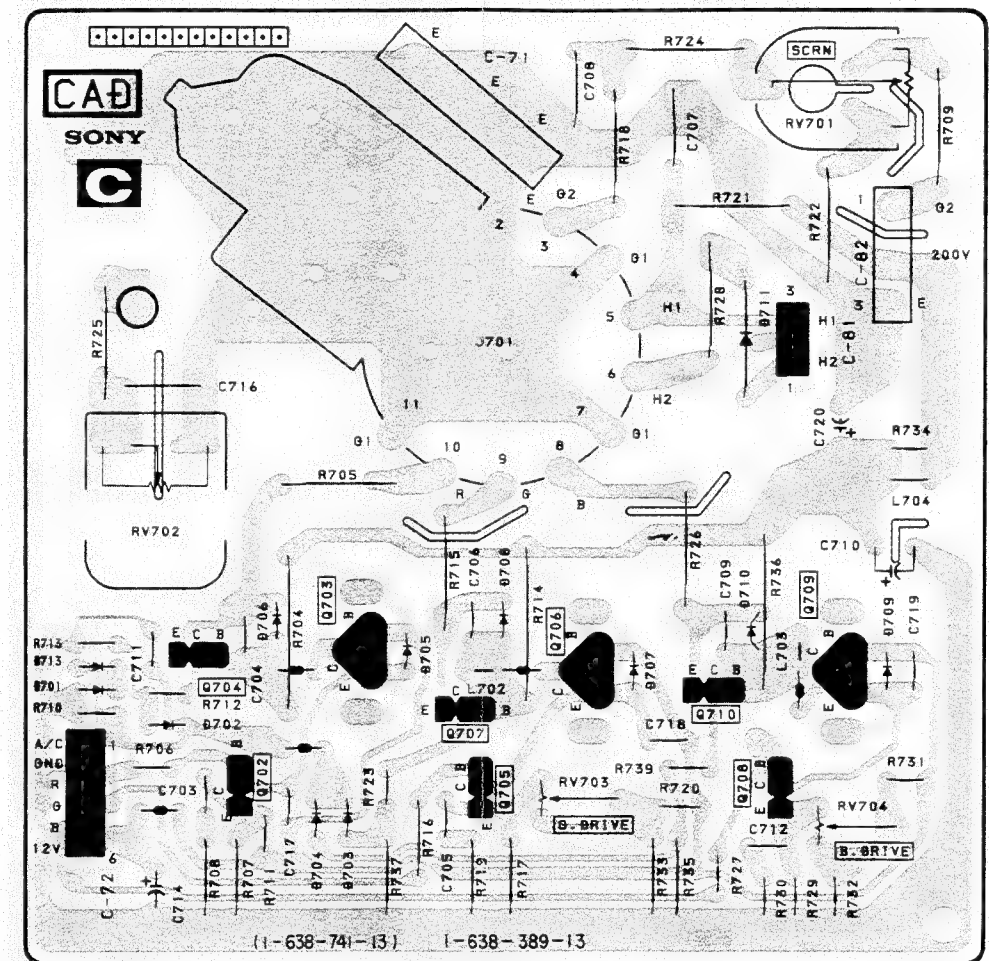
— V Board —



— IFG Board —

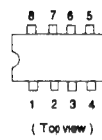


— C Board —

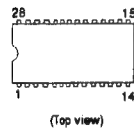


5-4. SEMICONDUCTORS

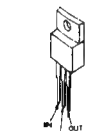
BA4558
RC4558P
TBA129
TEA2014A
TEA2031A



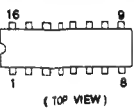
CXA1114P
FCB61C65L - 70P
TDA4580 - V7
TDA4650 - V4
TDA6200
TEA2028B



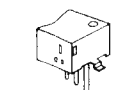
MC7812CT
TEA7605



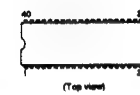
MC14051BCP
MC14052BCP
MC14053BCP
PCF8574
TDA4660V2
TDA8442-N3
TEA2860
μPD4053BC



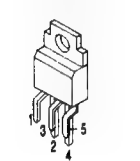
SBX1610 - 11



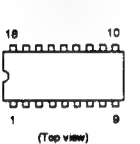
SDA20560-A012



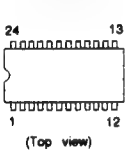
TDA2050



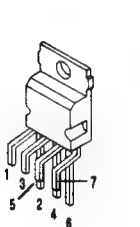
TDA2595-V9



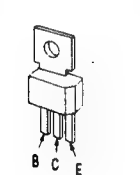
TDA6600-2



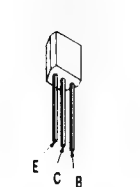
TDA8170



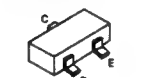
BF871



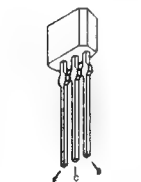
DTC144ES



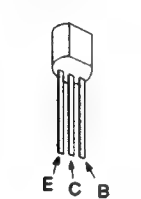
DTA144EK
DTC114EK
DTC124EK
DTC144EK
2SA812
2SA1037K
2SA1162
2SA1162 - G
2SC1623 - L5L6
2SC2412K - R



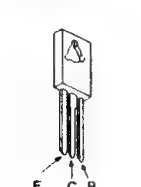
JC501
2SC2785-HFE



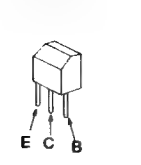
2SA1091-0
2SD789-3
2SD789-34



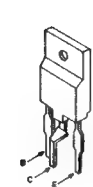
2SA1220A - P
2SB1357 - EF
2SC2688 - LK



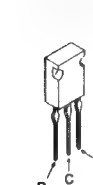
2SB734 - 34
2SD774 - 34



2SD1548



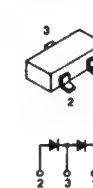
2SD2096 - EF



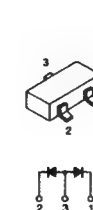
DAN202K
MA152WK



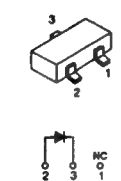
DA204K
1SS226



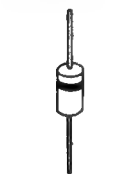
DAP202K



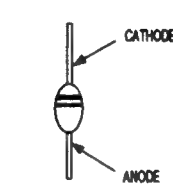
MA3036-H
MA3056 - M
MA3068 - M
RD3.6M - B2
RD5.6M - B2
RD6.8M - B2



ERC06 - 15S
ERC25 - 06S
RGP10G
RU - 3AM
EL - 1Z
ERD28 - 08S
RGP02 - 17
ERD29 - 08J



GP08D



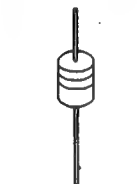
GP08D



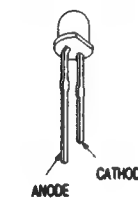
GP08D



MTZJ-11C
MTZJ-12C
MTZJ-4.7B
MTZJ-5.6B
MTZJ-5.6C
MTZJ-6.2B
MTZJ-6.8C
MTZJ-7.5C
MTZJ-9.1C
MTZJ-15A
MTZJ-3.9B
MTZJ-33A
MTZJ-36D
RD11ES - B3
RD12ES - B2
RD5.6ES - B2
RD6.8ES - B2
RD7.5ES - B2
RD9.1ES - B2
UZ-4.7BSC
1SS119
1SS133



LD-201VR



SECTION 6

EXPLODED VIEWS

NOTE :

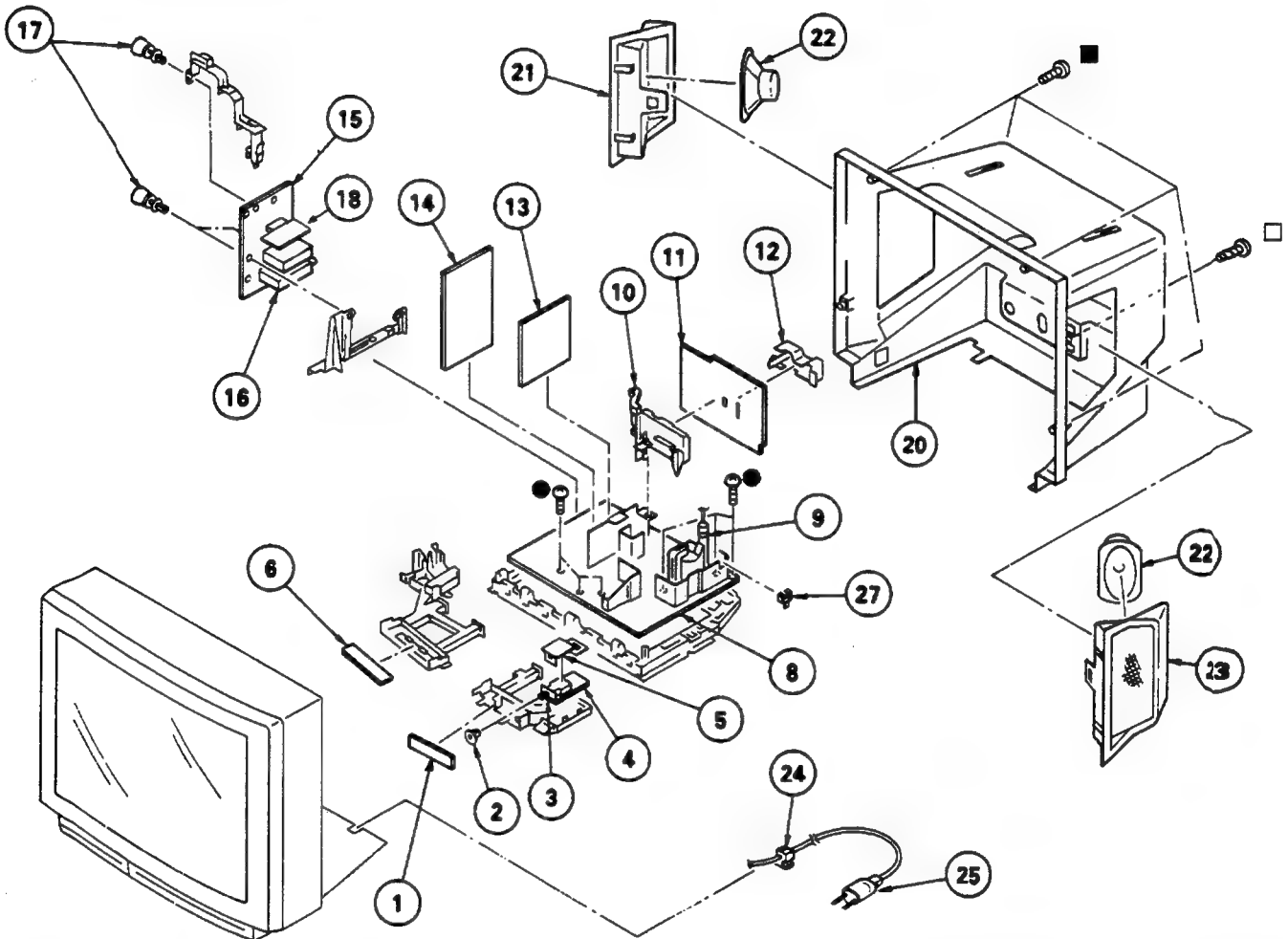
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.

Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and marked Δ are critical for safety.
Replace only with part number specified.

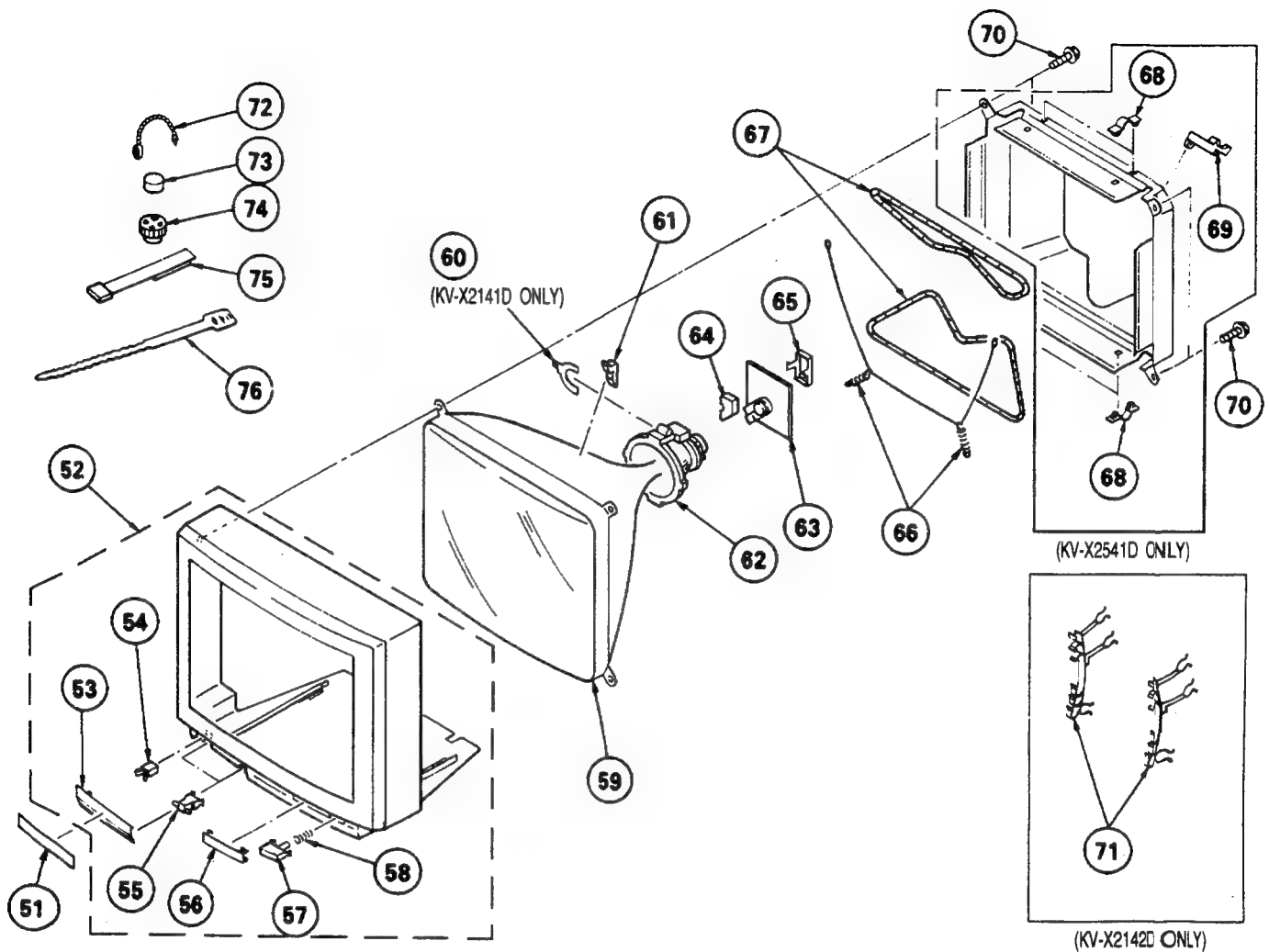
6-1. CHASSIS


- : BVTP3 x 12 7-685-648-79
- : BVTP4 x 16 7-658-663-79
- : BVYP4 x 20 7-658-664-79









REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
1	*1-638-392-11	H2 BOARD		14	A-1621-046-A	B BOARD, COMPLETE	
2	4-386-611-01	COVER, SWITCH		15	A-1632-022-A	A BOARD, COMPLETE	
3	Δ 1-571-433-12	SWITCH, PUSH (AC POWER)		16	1-465-301-11	TUNER (UV-816)	
4	*1-638-390-11	F BOARD		17	4-386-618-01	RIVET, T TYPE	
5	4-200-274-01	COVER, POWER SWITCH		18	A-1654-004-A	IFG BOARD, COMPLETE	
6	*1-638-391-11	H1 BOARD		20	4-200-158-21	COVER, REAR	(KV-X2141D)
8	A-1642-035-A	D BOARD, COMPLETE	(KV-X2141D)		4-200-135-41	COVER, REAR	(KV-X2541D)
	A-1642-031-A	D BOARD, COMPLETE	(KV-X2541D)	21	X-4200-025-6	BAFFLE (L) ASSY, BOARD	
9	Δ 1-439-416-51	TRANSFORMER ASSY, FLYBACK (UX-1650)		22	1-544-525-11	SPEAKER	
10	*4-386-624-11	BRACKET, J		23	X-4200-026-5	BAFFLE (R) ASSY, BOARD	
11	A-1651-018-A	J1 BOARD, COMPLETE		24	Δ 4-389-201-03	HOLDER, AC CORD	
12	4-200-014-01	BRACKET, TERMINAL		25	Δ 1-590-501-11	CORD, POWER (WITH NOISE FILTER)	
13	A-1645-013-A	V BOARD, COMPLETE		27	*3-646-071-00	HOLDER, WIRE	

6-2. PICTURE TUBE (KV-X2141D / KV-X2541D ONLY)



The components identified by shading and marked  are critical for safety.

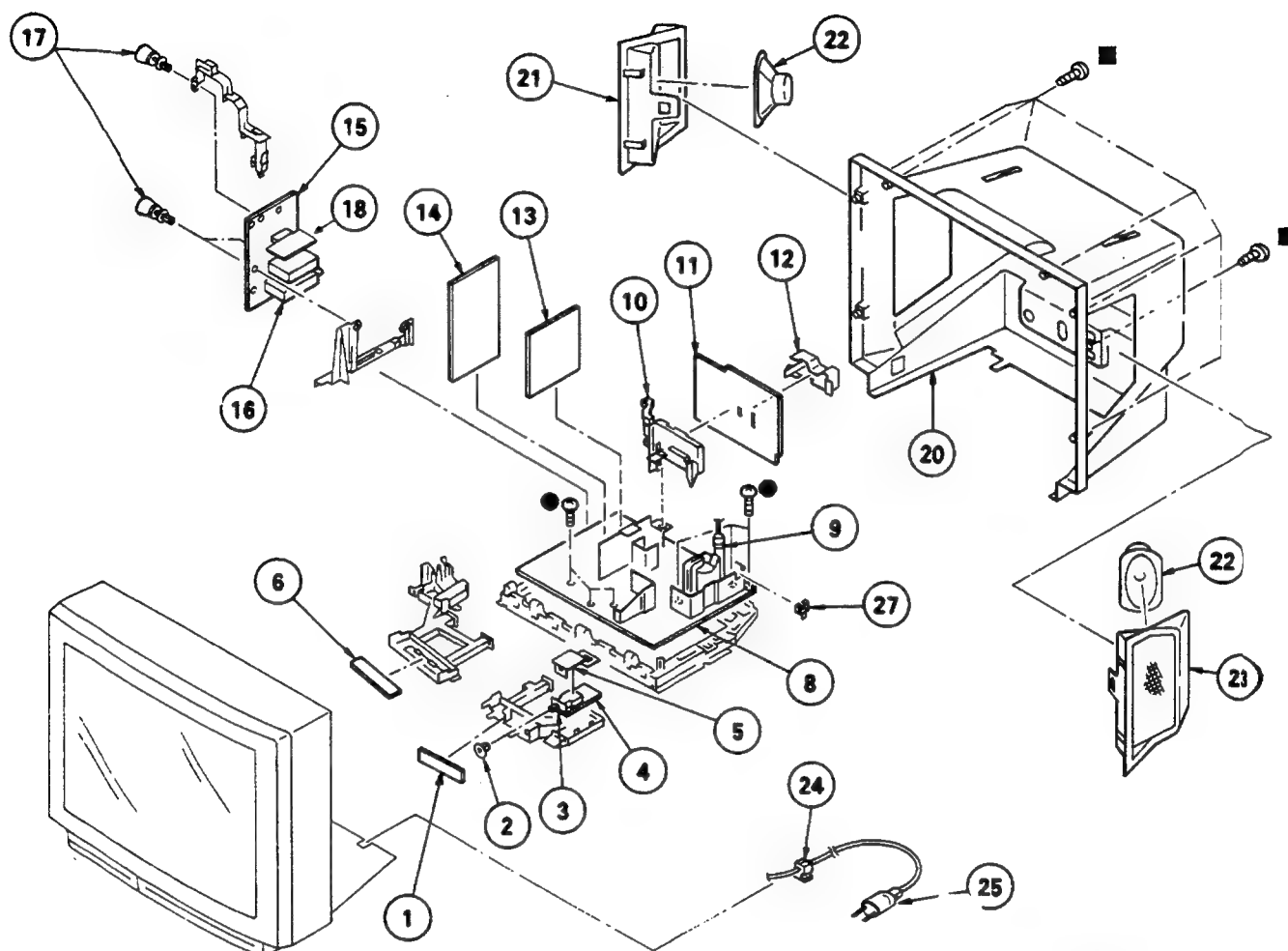
Replace only with part number specified.

REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
51	4-200-162-31	COVER, DOOR		63	*A-1638-014-A	C BOARD, COMPLETE	(KV-X2141D)
52	X-4200-027-8	CABINET ASSY (WITH BEZEL ASSY)	53-58 (KV-X2141D)	64	*A-1638-011-A	C BOARD, COMPLETE	(KV-X2541D)
	X-4200-121-1	CABINET ASSY (WITH BEZEL ASSY)	53-58 (KV-X2541D)	65	*4-379-167-01	COVER (MAIN), CV	
53	4-200-159-11	DOOR		66	*4-379-160-01	COVER (REAR LID), CV	
54	4-392-036-01	CATCHER, PUSH		67	4-303-774-21	SPRING	
55	3-703-035-11	SHAFT, LID			1-426-383-11	COIL, DEMAGNETIZATION	(KV-X2141D)
56	4-200-148-01	WINDOW, ORNAMENTAL			1-460-091-11	COIL, DEGAUSS	(KV-X2541D)
57	4-200-150-11	BUTTON, POWER		68	*4-385-916-01	HOLDER (D)	(KV-X2541D)
58	4-329-112-51	SPRING		69	*4-387-284-01	HOLDER, LEAD	(KV-X2541D)
59		8-738-758-05	PICTURE TUBE (A51JXH61X)	70	4-036-189-01	SCREW (S), PT	(KV-X2141D)
60		8-733-231-05	PICTURE TUBE (A59JWC61X)		4-036-188-01	SCREW (M), PT	(KV-X2541D)
61	1-452-277-00	MAGNET, BMC	(KV-X2141D)	71	*4-386-622-01	BAND, DGC	(KV-X2141D)
62	3-704-495-01	SPACER, DY		72	4-308-870-00	CLIP, LEAD WIRE	
		1-451-295-11	DEFLECTION YOKE (Y21PFA2)	73	1-452-032-00	MAGNET, DISK; 10MM	
		1-451-311-21	DEFLECTION YOKE (Y25FXA)	74	1-452-094-00	MAGNET, ROTATABLE DISK; 5MM	
				75	X-4309-608-0	PERMALLOY ASSY, CONVERGENCE	(KV-X2141D)
					X-4387-214-1	PERMALLOY ASSY, CORRECTION	(KV-X2541D)
				76	3-701-007-00	BAND, BINDING	

6-3. CHASSIS (KV-X2941D ONLY)

● : BVTP3 x 12 7-685-648-79

■ : BVTP4 x 16 7-658-663-79

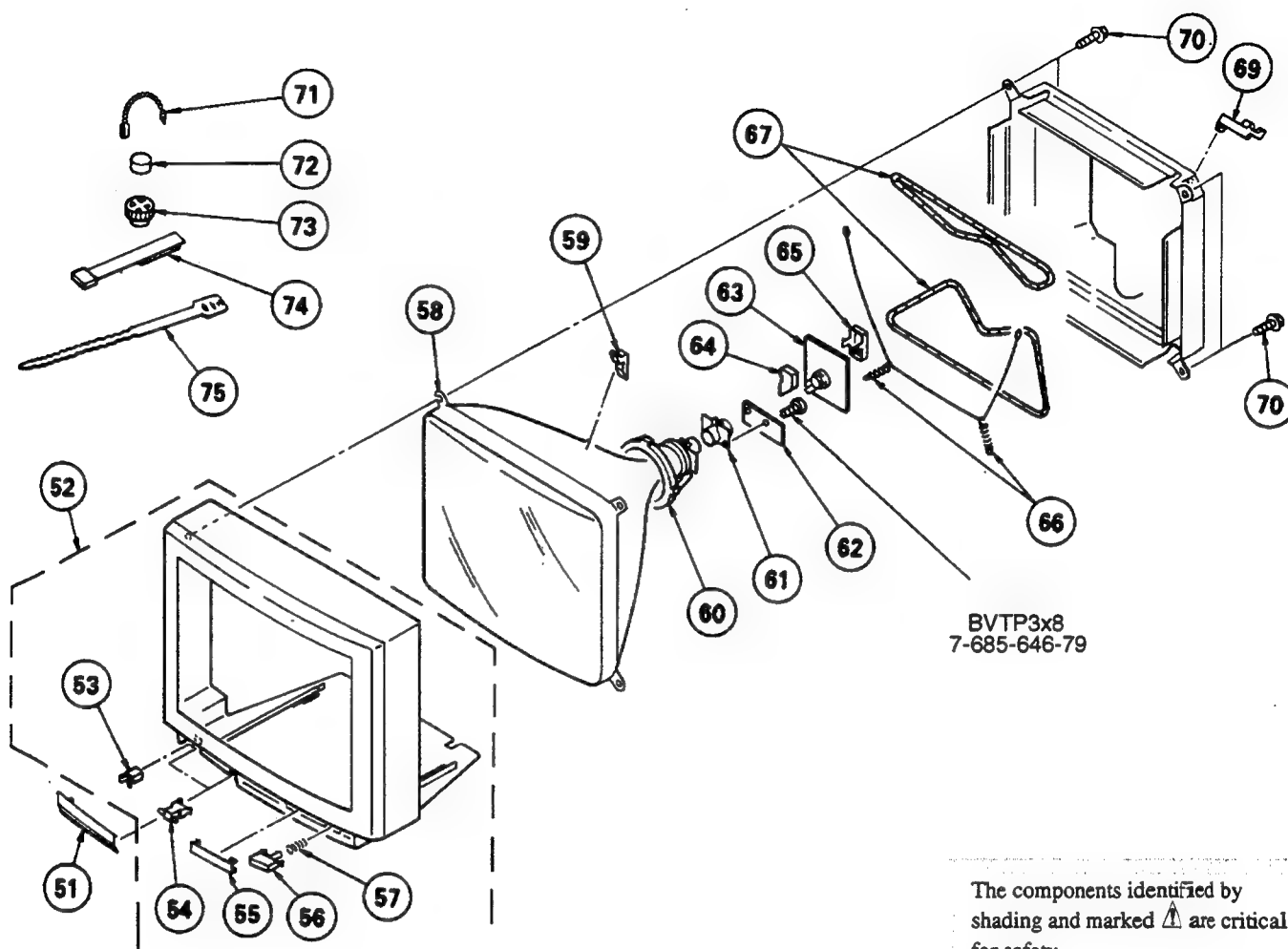


The components identified by shading and marked Δ are critical for safety.

Replace only with part number specified.

REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
1	*1-638-392-11	H2 BOARD		14	A-1621-040-A	B BOARD, COMPLETE	
2	4-386-611-01	COVER, SWITCH		15	A-1632-094-A	A BOARD, COMPLETE	
3	Δ 1-571-433-12	SWITCH, PUSH (AC POWER)		16	1-465-301-11	TUNER (UV-816)	
4	*1-638-390-11	F BOARD		17	4-386-618-01	RIVET, T TYPE	
5	4-200-274-01	COVER, POWER SWITCH		18	A-1654-008-A	IFG BOARD COMPLETE	
6	*1-638-391-11	H1 BOARD		20	4-398-910-11	COVER, REAR	
8	A-1642-032-A	D BOARD, COMPLETE		21	X-4398-901-2	BOARD ASSY, BAFFLE	
9	Δ 1-439-416-51	TRANSFORMER ASSY, FLYBACK (UX-1650)		22	1-544-525-11	SPEAKER	
10	*4-386-624-11	BRACKET, J		23	Δ 4-389-201-01	HOLDER, AC CORD	
11	A-1651-038-A	J1 BOARD, COMPLETE		24	Δ 1-590-501-11	CORD, POWER (WITH NOISE FILTER)	
12	4-200-014-01	BRACKET, TERMINAL		26	*3-646-071-00	HOLDER, WIRE	
13	A-1645-013-A	V BOARD, COMPLETE					

6-4. PICTURE TUBE (KV-X2941D ONLY)



The components identified by shading and marked Δ are critical for safety.

Replace only with part number specified.

REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
51	4-398-911-41	DOOR, CONTROL		63	*1-1638-013-A	C BOARD, COMPLETE	
52	X-4398-902-3	CABINET ASSY (WITH BEZEL ASSY)	53-57	64	*4-379-167-01	COVER (MAIN), CV	
53	4-392-036-01	CATCHER, PUSH		65	*4-379-160-01	COVER (REAR LID), CV	
54	3-703-035-11	SHAFT, LID		66	4-369-318-00	SPRING, TENSION	
55	4-200-148-01	WINDOW, ORNAMENTAL		67	Δ 1-426-398-11	COIL, DEMAGNETIZATION	
56	4-200-150-11	BUTTON, POWER		69	*4-387-284-01	HOLDER, LEAD	
57	4-329-112-21	SPRING		70	4-036-188-01	SCREW (M), PT	
58	Δ 8-733-831-05	PICTURE TUBE (A68JYKL61X)		71	4-308-870-00	CLIP, LEAD WIRE	
59	3-704-495-01	SPACER, DY		72	1-452-032-00	MAGNET, DISK; 10MM	
60	Δ 1-451-313-21	DEFLECTION YOKE (Y29FXA)		73	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM	
61	Δ 1-452-509-41	NECK ASSY, PICTURE TUBE (NA-308)		74	X-4603-312-0	PERMALLOY ASSY	
62	*1-634-193-11	M BOARD		75	3-701-007-00	BAND, BINDING	

B

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
< DIODE >							
D301	8-719-911-19	DIODE 1SS119		Q332	8-729-216-22	TRANSISTOR 2SA1162-G	
D302	8-719-911-19	DIODE 1SS119		Q333	8-729-216-22	TRANSISTOR 2SA1162-G	
D303	8-719-911-19	DIODE 1SS119		Q334	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D304	8-719-911-19	DIODE 1SS119		Q335	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D305	8-719-911-19	DIODE 1SS119		Q381	8-729-901-00	TRANSISTOR DTC124EK	
D307	8-719-110-23	DIODE RD11ESB3		Q382	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D309	8-719-911-19	DIODE 1SS119		Q1301	8-729-901-00	TRANSISTOR DTC124EK	
D310	8-719-110-23	DIODE RD11ESB3		Q1305	8-729-120-28	TRANSISTOR 2SC1623-L5L6	(KV-X2941D)
D311	8-719-110-23	DIODE RD11ESB3		Q1306	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D312	8-719-110-23	DIODE RD11ESB3		< RESISTOR >			
D313	8-719-911-19	DIODE 1SS119		JR385	1-216-206-00	METAL GLAZE 2.2K 5%	1/8W
D314	8-719-911-19	DIODE 1SS119		JR387	1-216-295-00	METAL GLAZE 0 5%	1/10W
D315	8-719-911-19	DIODE 1SS119		(KV-X2941D)			
D316	8-719-911-19	DIODE 1SS119		JR390	1-216-295-00	METAL GLAZE 0 5%	1/10W
D317	8-719-911-19	DIODE 1SS119		(KV-X2141D/KVX2541D)			
D318	8-719-911-19	DIODE 1SS119		R301	1-249-409-11	CARBON 220 5%	1/4W
D319	8-719-911-19	DIODE 1SS119		R302	1-249-409-11	CARBON 220 5%	1/4W
D320	8-719-911-19	DIODE 1SS119		R303	1-249-409-11	CARBON 220 5%	1/4W
D331	8-719-911-19	DIODE 1SS119		R304	1-249-409-11	CARBON 220 5%	1/4W
D332	8-719-911-19	DIODE 1SS119		R305	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
D333	8-719-911-19	DIODE 1SS119		R307	1-216-097-00	METAL GLAZE 100K 5%	1/10W
D350	8-719-109-89	DIODE RD5.6ESB2		R308	1-216-296-00	METAL GLAZE 0 5%	1/8W
< DELAY LINE >				R309	1-216-025-00	METAL GLAZE 100 5%	1/10W
DL332	1-236-062-11	MODULE, Y DELAY LINE		R310	1-216-025-00	METAL GLAZE 100 5%	1/10W
DL401	1-415-613-11	DELAY LINE, Y		R311	1-216-025-00	METAL GLAZE 100 5%	1/10W
< IC >				R312	1-249-409-11	CARBON 220 5%	1/4W
IC301	8-759-517-43	IC TDA4580-V7		R313	1-216-081-00	METAL GLAZE 22K 5%	1/10W
IC302	8-759-980-60	IC TDA8442N3		R314	1-216-182-00	METAL GLAZE 220 5%	1/8W
IC303	8-759-140-53	IC UPD4053BC		R315	1-216-031-00	METAL GLAZE 180 5%	1/10W
IC331	8-759-521-22	IC TDA4650/V4		R316	1-216-031-00	METAL GLAZE 180 5%	1/10W
IC332	8-759-505-39	IC TDA4660V2		R317	1-216-031-00	METAL GLAZE 180 5%	1/10W
IC1301	1-235-534-11	CONTROL MODULE, PICTURE	(KV-X2941D)	R318	1-249-429-11	CARBON 10K 5%	1/4W
< COIL >				R319	1-249-409-11	CARBON 220 5%	1/4W
L301	1-410-868-11	INDUCTOR 4.7UH		R320	1-216-198-00	METAL GLAZE 1K 5%	1/8W
L302	1-410-868-11	INDUCTOR 4.7UH		R321	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
L303	1-408-406-00	INDUCTOR 5.6UH		R322	1-216-049-00	METAL GLAZE 1K 5%	1/10W
(KV-X2141D/KV-X2541D)				R328	1-216-311-00	METAL GLAZE 6.8 5%	1/10W
L331	1-404-554-11	COIL		R329	1-216-311-00	METAL GLAZE 6.8 5%	1/10W
L336	1-404-554-11	COIL		R330	1-216-311-00	METAL GLAZE 6.8 5%	1/10W
L338	1-408-409-00	INDUCTOR 10UH		R331	1-216-001-00	METAL GLAZE 10 5%	1/10W
L1301	1-408-425-00	INDUCTOR 220UH		R332	1-216-184-00	METAL GLAZE 270 5%	1/8W
L1302	1-408-419-00	INDUCTOR 68UH		R333	1-216-121-00	METAL GLAZE 1M 5%	1/10W
< TRANSISTOR >				R334	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q301	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R335	1-247-852-11	CARBON 7.5K 5%	1/4W
Q303	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R336	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
Q305	8-729-901-06	TRANSISTOR DTA144EK		R337	1-216-184-00	METAL GLAZE 270 5%	1/8W
Q306	8-729-119-78	TRANSISTOR 2SC2785-HFE		R338	1-216-001-00	METAL GLAZE 10 5%	1/10W
Q311	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R339	1-216-033-00	METAL GLAZE 220 5%	1/10W
Q312	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R341	1-216-031-00	METAL GLAZE 180 5%	1/10W
Q313	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R342	1-216-041-00	METAL GLAZE 470 5%	1/10W
Q316	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R344	1-216-089-00	METAL GLAZE 47K 5%	1/10W
Q330	8-729-216-22	TRANSISTOR 2SA1162-G		R346	1-216-202-00	METAL GLAZE 1.5K 5%	1/8W
Q331	8-729-901-00	TRANSISTOR DTC124EK		R347	1-216-073-00	METAL GLAZE 10K 5%	1/10W
				R348	1-216-089-00	METAL GLAZE 47K 5%	1/10W
				R349	1-216-045-00	METAL GLAZE 680 5%	1/10W
				(KV-X2141D/KV-X2541D)			
				R350	1-216-045-00	METAL GLAZE 680 5%	1/10W
				(KV-X2141D/KV-X2541D)			
				R351	1-216-033-00	METAL GLAZE 220 5%	1/10W
				(KV-X2141D/KV-X2541D)			
				R354	1-216-033-00	METAL GLAZE 220 5%	1/10W

ie components identified by
ading and marked Δ are critical
r safety.
place only with part number
ecified.

KV-X2141D/X2541D/X2941D
RM-816

B F A

REF.NO.	PART NO.	DESCRIPTION	REMARK
R355	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
R356	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W
R357	1-216-033-00	METAL GLAZE 220 5%	1/10W (KV-X2941D)
R358	1-216-033-00	METAL GLAZE 220 5%	1/10W
R359	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R360	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R361	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R363	1-216-055-00	METAL GLAZE 1.8K 5%	1/10W
R364	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W
R365	1-216-047-00	METAL GLAZE 820 5%	1/10W
R366	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W
R367	1-216-033-00	METAL GLAZE 220 5%	1/10W
R370	1-216-033-00	METAL GLAZE 220 5%	1/10W
R372	1-216-023-00	METAL GLAZE 82 5%	1/10W
R376	1-249-429-11	CARBON 10K 5%	1/4W
R377	1-216-055-00	METAL GLAZE 1.8K 5%	1/10W (KV-X2941D)
	1-216-037-00	METAL GLAZE 330 5%	1/10W (KV-X2141D/KV-X2541D)
R378	1-216-097-00	METAL GLAZE 100K 5%	1/10W
R379	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R380	1-216-071-00	METAL GLAZE 8.2K 5%	1/10W
R381	1-216-093-00	METAL GLAZE 68K 5%	1/10W
R382	1-216-105-00	METAL GLAZE 220K 5%	1/10W (KV-X2541D/KV-X2941D)
	1-216-107-00	METAL GLAZE 270K 5%	1/10W (KV-X2141D)
R383	1-216-115-00	METAL GLAZE 560K 5%	1/10W
R384	1-216-029-00	METAL GLAZE 150 5%	1/10W
R385	1-216-085-00	METAL GLAZE 33K 5%	1/10W
R386	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W (KV-X2941D)
R387	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R388	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R389	1-216-101-00	METAL GLAZE 150K 5%	1/10W
R390	1-216-025-00	METAL GLAZE 100 5%	1/10W (KV-X2941D)
	1-216-033-00	METAL GLAZE 220 5%	1/10W (KV-X2141D/KV-X2541D)
R392	1-216-021-00	METAL GLAZE 68 5%	1/10W
R393	1-216-021-00	METAL GLAZE 68 5%	1/10W
R394	1-216-021-00	METAL GLAZE 68 5%	1/10W
R395	1-216-214-00	METAL GLAZE 4.7K 5%	1/8W
R396	1-216-041-00	METAL GLAZE 470 5%	1/10W
R398	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R401	1-216-053-00	METAL GLAZE 1.5K 5%	1/10W
R402	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W
R403	1-216-025-00	METAL GLAZE 100 5%	1/10W
R404	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W
R405	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R406	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
R407	1-216-047-00	METAL GLAZE 820 5%	1/10W
R410	1-216-184-00	METAL GLAZE 270 5%	1/8W
R412	1-216-053-00	METAL GLAZE 1.5K 5%	1/10W
R1301	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R1302	1-216-089-00	METAL GLAZE 47K 5%	1/10W (KV-X2941D)
R1303	1-216-089-00	METAL GLAZE 47K 5%	1/10W (KV-X2941D)
R1304	1-216-097-00	METAL GLAZE 100K 5%	1/10W (KV-X2941D)

REF.NO.	PART NO.	DESCRIPTION	REMARK
R1305	1-216-001-00	METAL GLAZE 10 5%	1/10W
R1307	1-216-037-00	METAL GLAZE 330 5%	1/10W
R1308	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W (KV-X2941D)
	1-216-295-00	METAL GLAZE 0 5%	1/10W (KV-X2141D/KV-X2541D)
R1309	1-216-037-00	METAL GLAZE 330 5%	1/10W
< VARIABLE RESISTOR >			
RV331	1-241-627-11	RES, ADJ, CARBON 1K	
< CRYSTAL >			
X331	1-567-307-11	OSCILLATOR, CRYSTAL	
X332	1-567-131-00	OSCILLATOR, CRYSTAL	

	*A-1624-007-A	F BOARD	*****
	*4-341-752-01	EYELET	
< CONNECTOR >			
F61	*1-580-844-11	PIN, CONNECTOR (POWER)	
F62	*1-580-844-11	PIN, CONNECTOR (POWER)	
< FUSE >			
F1601 Δ	1-576-231-21	FUSE (H.B.C.)	4A 250V
	1-533-230-11	HOLDER, FUSE	
< SWITCH >			
S1701 Δ	1-571-433-12	SWITCH, PUSH (AC POWER)	

	*A-1632-022-A	A BOARD, COMPLETE (KV-X2141D/KV-X2541D)	*****
	*A-1632-094-A	A BOARD, COMPLETE (KV-X2941D)	*****
	1-404-801-11	TRAP, CERAMIC	
< CONNECTOR >			
A11	1-565-393-11	CONNECTOR, BOARD TO BOARD	
A12	1-565-393-11	CONNECTOR, BOARD TO BOARD	
A13	1-565-503-11	CONNECTOR, BOARD TO BOARD 12P	
A16	1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)	
A17	1-564-886-11	PLUG, CONNECTOR 9P	
A19	1-564-881-11	PLUG, CONNECTOR 4P	
< CAPACITOR >			
C101	1-126-233-11	ELECT 22MF	20% 50V
C102	1-126-103-11	ELECT 470MF	20% 16V
C104	1-124-910-11	ELECT 47MF	20% 50V
C106	1-126-233-11	ELECT 22MF	20% 50V
C108	1-136-165-00	FILM 0.1MF	5% 50V
C109	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C111	1-124-925-11	ELECT 2.2MF	20% 50V
C115	1-124-925-11	ELECT 2.2MF	20% 50V
C127	1-124-122-11	ELECT 100MF	20% 50V
C128	1-124-910-11	ELECT 47MF	20% 50V
C129	1-124-910-11	ELECT 47MF	20% 50V

A

C

REF.NO.	PART NO.	DESCRIPTION	REMARK
C138	1-136-165-00	FILM 0.1MF	5% 50V
C171	1-163-005-11	CERAMIC CHIP 470PF	10% 50V
C172	1-163-005-11	CERAMIC CHIP 470PF	10% 50V
C177	1-102-074-00	CERAMIC 0.001MF	10% 50V
C181	1-101-004-00	CERAMIC 0.01MF	50V
< IC >			
IC103	8-759-979-62	IC PCF8574	
< COIL >			
L100	1-410-683-31	INDUCTOR 560UH	
L101	1-408-225-00	INDUCTOR 3.3UH	
L102	1-408-413-00	INDUCTOR 22UH	
L107	1-408-397-00	INDUCTOR 1UH	
< TRANSISTOR >			
Q113	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q114	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q115	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q116	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q125	8-729-900-89	TRANSISTOR DTC144ES	
Q126	8-729-901-06	TRANSISTOR DTA144EK	
Q181	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
< RESISTOR >			
JR230	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR252	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR253	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR255	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR256	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR257	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR258	1-216-296-00	METAL GLAZE 0 5% 1/8W	
R101	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R105	1-216-079-00	METAL GLAZE 18K 5% 1/10W	
R107	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R108	1-216-079-00	METAL GLAZE 18K 5% 1/10W	
R110	1-249-429-11	CARBON 10K 5% 1/4W	
R111	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R116	1-216-023-00	METAL GLAZE 82 5% 1/10W	
R118	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R128	1-216-027-00	METAL GLAZE 120 5% 1/10W	
R129	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R130	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R157	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R158	1-249-409-11	CARBON 220 5% 1/4W	
R159	1-249-409-11	CARBON 220 5% 1/4W	
R161	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R162	1-216-095-00	METAL GLAZE 82K 5% 1/10W	
R163	1-216-095-00	METAL GLAZE 82K 5% 1/10W	
R164	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R165	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R167	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R168	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R169	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R181	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R182	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R193	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R194	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R195	1-216-017-00	METAL GLAZE 47 5% 1/10W	

REF.NO.	PART NO.	DESCRIPTION	REMARK
R196	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
< TUNER >			
TU101	1-465-301-11	TUNER, (UV-816)	
< IF BLOCK >			
VIF101	1-466-154-11	IF BLOCK (IFG-389S)	

*A-1638-014-A C BOARD, COMPLETE (KV-X2141D)			

*A-1638-013-A C BOARD, COMPLETE (KV-X2941D)			

*A-1638-011-A C BOARD, COMPLETE (KV-X2541D)			

*4-379-160-01 COVER (REAR LID), CV			
*4-379-167-01 COVER (MAIN), CV			
< CONNECTOR >			
C71	*1-506-371-00	PIN, CONNECTOR 2P	
C72	*1-568-881-51	PIN, CONNECTOR 6P	
C81	*1-568-878-51	PIN, CONNECTOR 3P	
C82	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
< CAPACITOR >			
C703	1-102-980-00	CERAMIC 270PF 5% 50V	
C704	1-102-116-00	CERAMIC 680PF 10% 50V	
C705	1-102-978-00	CERAMIC 220PF 5% 50V	
	1-102-976-00	CERAMIC 180PF 5% 50V	(KV-X2541D/KV-X2941D)
			(KV-X2141D)
C706	1-102-116-00	CERAMIC 680PF 10% 50V	
C707	1-162-116-00	CERAMIC 680PF 10% 2KV	
C708	1-162-114-00	CERAMIC 0.0047MF 2KV	
C709	1-102-116-00	CERAMIC 680PF 10% 50V	
C710	1-123-947-00	ELECT 10MF 20% 250V	
C711	1-101-880-00	CERAMIC 47PF 5% 50V	
C712	1-102-980-00	CERAMIC 270PF 5% 50V	
C714	1-124-360-00	ELECT 1000MF 20% 16V	
C716	1-162-622-11	CERAMIC 330PF 10% 400V	
C717	1-102-114-00	CERAMIC 470PF 10% 50V	
C718	1-102-114-00	CERAMIC 470PF 10% 50V	
C719	1-102-114-00	CERAMIC 470PF 10% 50V	
< DIODE >			
D701	8-719-110-14	DIODE RD9.1ESB3	
D702	8-719-911-19	DIODE 1SS119	
D703	8-719-911-19	DIODE 1SS119	
D704	8-719-911-19	DIODE 1SS119	
D705	8-719-911-19	DIODE 1SS119	
D706	8-719-911-19	DIODE 1SS119	
D707	8-719-911-19	DIODE 1SS119	
D708	8-719-911-19	DIODE 1SS119	
D709	8-719-911-19	DIODE 1SS119	
D710	8-719-911-19	DIODE 1SS119	
D711	8-719-300-33	DIODE RU-3AM	
D713	8-719-911-19	DIODE 1SS119	

The components identified by shading and marked **A** are critical for safety.
Replace only with part number specified.

KV-X2141D/X2541D/X2941D

RM-816



REF.NO.	PART NO.	DESCRIPTION	REMARK
---------	----------	-------------	--------

< JACK >

J701 **A** 1-526-990-13 SOCKET, CRT

< COIL >

L704 1-408-415-00 INDUCTOR 33UH

< TRANSISTOR >

Q702 8-729-119-78 TRANSISTOR 2SC2785-HFE
Q703 8-729-906-70 TRANSISTOR BF871
Q704 8-729-200-17 TRANSISTOR 2SA10910
Q705 8-729-119-78 TRANSISTOR 2SC2785-HFE
Q706 8-729-906-70 TRANSISTOR BF871

Q707 8-729-200-17 TRANSISTOR 2SA1091-0
Q708 8-729-119-78 TRANSISTOR 2SC2785-HFE
Q709 8-729-906-70 TRANSISTOR BF871
Q710 8-729-200-17 TRANSISTOR 2SA1091-0

< RESISTOR >

R704 1-216-486-00 METAL OXIDE 8.2K 5% 3W F
R705 1-202-824-00 SOLID 3.3K 10% 1/2W
R706 1-249-409-11 CARBON 220 5% 1/4W
R707 1-249-412-11 CARBON 390 5% 1/4W
(KV-X2541D/KV-X2941D)
1-247-822-11 CARBON 430 5% 1/4W
(KV-X2141D)

R708 1-249-401-11 CARBON 47 5% 1/4W
R709 1-202-844-00 SOLID 330K 10% 1/2W
R710 1-215-465-00 METAL 68K 1% 1/4W
(KV-X2541D/KV-X2941D)
1-215-469-00 METAL 100K 1% 1/4W
(KV-X2141D)

R711 1-249-426-11 CARBON 5.6K 5% 1/4W
R712 1-249-417-11 CARBON 1K 5% 1/4W
R713 1-215-471-00 METAL 120K 1% 1/4W
(KV-X2541D/KV-X2941D)
1-215-474-00 METAL 160K 1% 1/4W
(KV-X2141D)

R714 1-216-486-00 METAL OXIDE 8.2K 5% 3W F
R715 1-202-824-00 SOLID 3.3K 10% 1/2W

R716 1-249-409-11 CARBON 220 5% 1/4W
R717 1-249-415-11 CARBON 680 5% 1/4W
R718 1-202-814-11 SOLID 33K 20% 1/2W
R719 1-249-401-11 CARBON 47 5% 1/4W
R720 1-249-423-11 CARBON 3.3K 5% 1/4W

R721 1-202-842-11 SOLID 220K 20% 1/2W
R722 1-202-848-00 SOLID 680K 10% 1/2W
R723 1-249-417-11 CARBON 1K 5% 1/4W
R724 1-202-846-00 SOLID 470K 20% 1/2W
R725 1-202-838-00 SOLID 100K 20% 1/2W

R726 1-202-824-00 SOLID 3.3K 10% 1/2W
R727 1-249-409-11 CARBON 220 5% 1/4W
R728 1-216-347-11 METAL OXIDE 0.68 5% 1W F
R729 1-249-416-11 CARBON 820 5% 1/4W
R730 1-249-401-11 CARBON 47 5% 1/4W

R731 1-249-423-11 CARBON 3.3K 5% 1/4W
R732 1-249-415-11 CARBON 680 5% 1/4W
R733 1-249-415-11 CARBON 680 5% 1/4W
R734 1-249-405-11 CARBON 100 5% 1/4W
R735 1-215-493-00 METAL 1M 1% 1/4W

REF.NO.	PART NO.	DESCRIPTION	REMARK
---------	----------	-------------	--------

R736 1-216-486-00 METAL OXIDE 8.2K 5% 3W F
R737 1-215-485-00 METAL 470K 1% 1/4W
(KV-X2941D)
1-215-491-00 METAL 820K 1% 1/4W
(KV-X2541D)
1-215-483-00 METAL 390K 1% 1/4W
(KV-X2141D)
R739 1-249-417-11 CARBON 1K 5% 1/4W

< VARIABLE RESISTOR >

RV701 1-230-641-11 RES, ADJ, METAL GLAZE 2.2M
RV702 1-230-619-11 RES, ADJ, METAL GLAZE 110M
RV703 1-237-749-11 RES, ADJ, CARBON 2200
RV704 1-237-749-11 RES, ADJ, CARBON 2200

A-1642-031-A D BOARD, COMPLETE (KV-X2541D)

A-1642-032-A D BOARD, COMPLETE (KV-X2941D)

A-1642-035-A D BOARD, COMPLETE (KV-X2141D)

4-200-001-01 HOLDER, IC
4-201-023-01 SPACER, INSULATING
*4-341-751-01 EYELET
*4-341-752-01 EYELET
*4-368-683-01 SPRING

TP91 *1-535-084-00 1P TERMINAL PIN

< CONNECTOR >

D1 *1-568-881-51 PIN, CONNECTOR 6P
D2 *1-568-882-51 PIN, CONNECTOR 7P
D11 *1-565-394-11 PIN, BOARD TO BOARD CONNECTOR
D12 *1-565-394-11 PIN, BOARD TO BOARD CONNECTOR
D18 *1-560-290-00 PLUG, CONNECTOR (2.5MM PITCH)

D21 *1-565-394-11 PIN, BOARD TO BOARD CONNECTOR
D22 *1-565-394-11 PIN, BOARD TO BOARD CONNECTOR
D31 *1-565-394-11 PIN, BOARD TO BOARD CONNECTOR
D32 *1-565-394-11 PIN, BOARD TO BOARD CONNECTOR
D33 *1-565-394-11 PIN, BOARD TO BOARD CONNECTOR

D41 *1-566-367-11 CONNECTOR, HINGE (RECEPTACLE)
D44 *1-568-881-51 PIN, CONNECTOR 6P
D45 *1-568-881-51 PIN, CONNECTOR 6P
D51 *1-566-367-11 CONNECTOR, HINGE (RECEPTACLE)
D62 **A** *1-565-395-11 PIN, CONNECTOR 3P

D65 **A** *1-508-765-00 PIN, CONNECTOR (5MM PITCH) 3P
D66 **A** *1-508-786-00 PIN, CONNECTOR (5MM PITCH) 2P
D81 *1-508-765-00 PIN, CONNECTOR (5MM PITCH) 3P
D82 *1-508-765-00 PIN, CONNECTOR (5MM PITCH) 3P
D83 *1-508-786-00 PIN, CONNECTOR (5MM PITCH) 2P

D84 *1-580-798-11 CONNECTOR PIN (DY) 6P
D88 *1-568-878-51 PIN, CONNECTOR

< CAPACITOR >

C002 1-163-205-00 CERAMIC CHIP 0.001MF 5% 50V
C003 1-124-925-11 ELECT 2.2MF 20% 50V
C004 1-124-120-11 ELECT 220MF 20% 16V
C005 1-124-903-11 ELECT 1MF 20% 50V
C008 1-163-117-00 CERAMIC CHIP 100PF 5% 50V
C009 1-163-117-00 CERAMIC CHIP 100PF 5% 50V
C010 1-124-120-11 ELECT 220MF 20% 16V
C011 1-163-031-11 CERAMIC CHIP 0.01MF 50V

D

The components identified by shading and marked Δ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
C013	1-136-165-00	FILM 0.1MF 5%	50V
C014	1-136-165-00	FILM 0.1MF 5%	50V
C015	1-124-902-00	ELECT 0.47MF 20%	50V
C016	1-163-141-00	CERAMIC CHIP 0.001MF 5%	50V
C017	1-136-165-00	FILM 0.1MF 5%	50V
C018	1-163-127-00	CERAMIC CHIP 270PF 5%	50V
C019	1-106-383-00	MYLAR 0.047MF 10%	100V
C021	1-163-117-00	CERAMIC CHIP 100PF 5%	50V
C023	1-163-117-00	CERAMIC CHIP 100PF 5%	50V
C024	1-163-117-00	CERAMIC CHIP 100PF 5%	50V
C027	1-124-910-11	ELECT 47MF 20%	50V
C030	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C031	1-163-081-00	CERAMIC CHIP 0.22MF	25V
C032	1-163-081-00	CERAMIC CHIP 0.22MF	25V
C033	1-163-181-00	CERAMIC CHIP 100PF 5%	50V
C034	1-124-907-11	ELECT 10MF 20%	50V
C251	1-124-903-11	ELECT 1MF 20%	50V
C252	1-126-233-11	ELECT 22MF 20%	50V
C253	1-163-009-11	CERAMIC CHIP 0.001MF 10%	50V
C254	1-136-165-00	FILM 0.1MF 5%	50V
C255	1-124-636-00	ELECT 3300MF 20%	25V
C261	1-124-903-11	ELECT 1MF 20%	50V
C262	1-126-233-11	ELECT 22MF 20%	50V
C263	1-163-009-11	CERAMIC CHIP 0.001MF 10%	50V
C264	1-136-165-00	FILM 0.1MF 5%	50V
C265	1-124-564-11	ELECT 4700MF 20%	25V
C270	1-130-785-11	MYLAR 0.47MF 10%	100V
C274	1-130-785-11	MYLAR 0.47MF 10%	100V
C501	1-124-927-11	ELECT 4.7MF 20%	50V
C502	1-124-927-11	ELECT 4.7MF 20%	50V
C503	1-136-204-11	MYLAR 0.015MF 10%	400V
C504	1-163-121-00	CERAMIC CHIP 150PF 5%	50V
C505	1-137-365-11	FILM 0.0015MF 5%	50V
C506	1-106-375-12	MYLAR 0.022MF 10%	250V
C507	1-136-171-00	FILM 0.33MF 5%	50V
C508	1-106-375-12	MYLAR 0.022MF 10%	250V
C509	1-136-165-00	FILM 0.1MF 5%	50V
C510	1-161-959-00	CERAMIC 22PF 10%	500V
C511	1-137-413-11	FILM 0.0033MF 10%	100V
C512	1-136-165-00	FILM 0.1MF 5%	50V
C513	1-163-125-00	CERAMIC CHIP 220PF 5%	50V
C514	1-136-169-00	FILM 0.22MF 5%	50V
C515	1-124-903-11	ELECT 1MF 20%	50V
C516	1-137-410-11	FILM 0.001MF 10%	100V
C517	1-124-252-00	ELECT 0.33MF 20%	50V
C518	1-124-902-00	ELECT 0.47MF 20%	50V
C519	1-136-171-00	FILM 0.33MF 5%	50V
		(KV-X2941D)	
	1-136-173-00	FILM 0.47MF 5%	50V
		(KV-X2141D/KV-X2541D)	
C520	1-164-161-11	CERAMIC CHIP 0.0022MF 10%	50V
C521	1-136-165-00	FILM 0.1MF 5%	50V
C522	1-124-122-11	ELECT 100MF 20%	50V
C523	1-137-410-11	FILM 0.001MF 10%	100V
C524	1-137-367-11	FILM 0.0033MF 5%	50V
C525	1-163-117-00	CERAMIC CHIP 100PF 5%	50V
C526	1-163-101-00	CERAMIC CHIP 22PF 5%	50V
		(KV-X2941D)	
	1-163-103-00	CERAMIC CHIP 27PF 5%	50V
		(KV-X2141D/KV-X2541D)	
C527	1-106-220-00	MYLAR 0.1MF 10%	100V

REF.NO.	PART NO.	DESCRIPTION	REMARK
C531	1-124-190-00	ELECT 680MF 10%	25V
C532	1-124-122-11	ELECT 100MF 20%	50V
C533	1-108-702-11	MYLAR 0.068MF 10%	100V
C534	1-124-120-11	ELECT 220MF 20%	16V
C536	1-131-365-00	TANTALUM 10MF 10%	16V
	1-131-363-00	TANTALUM 4.7MF 10%	16V
		(KV-X2541D/KV-X2941D)	
		(KV-X2141D)	
C537	1-124-903-11	ELECT 1MF 20%	50V
C538	1-137-410-11	FILM 0.001MF 10%	100V
C539	1-163-129-00	CERAMIC CHIP 330PF 5%	50V
C540	1-163-009-11	CERAMIC CHIP 0.001MF 10%	50V
C592	1-124-122-11	ELECT 100MF 20%	50V
C593	1-163-129-00	CERAMIC CHIP 330PF 5%	50V
C601	1-162-599-12	CERAMIC 0.0047MF	250V
C602	Δ 1-161-964-61	CERAMIC 0.0047MF	250V
C603	Δ 1-161-964-61	CERAMIC 0.0047MF	250V
C604	Δ 1-125-318-00	ELECT(BLOCK) 220MF 20%	400V
C605	1-124-484-11	ELECT 220MF 20%	35V
C606	1-163-137-00	CERAMIC CHIP 680PF 5%	50V
C607	1-136-177-00	FILM 1MF 5%	50V
C608	1-124-927-11	ELECT 4.7MF 20%	50V
C611	1-124-910-11	ELECT 47MF 20%	50V
C612	1-137-410-11	FILM 0.001MF 10%	100V
C613	1-136-539-11	FILM 0.0022MF 3%	2KV
C614	1-102-030-00	CERAMIC 330PF 10%	500V
C615	1-128-142-11	ELECT 1500MF 20%	25V
C616	1-102-030-00	CERAMIC 330PF 10%	500V
C617	1-124-122-11	ELECT 100MF 20%	50V
		(KV-X2541D/KV-X2941D)	
	1-124-120-11	ELECT 220MF 20%	25V
		(KV-X2141D)	
C618	1-162-115-00	CERAMIC 330PF 10%	2KV
C619	1-128-320-11	ELECT 2200MF 20%	16V
C620	1-136-173-00	FILM 0.47MF 5%	50V
		(KV-X2541D/KV-X2941D)	
	1-137-028-11	FILM 1MF 10%	63V
		(KV-X2141D)	
C621	1-124-347-00	ELECT 100MF 20%	160V
C622	1-128-320-11	ELECT 2200MF 20%	16V
C623	1-124-910-11	ELECT 47MF 20%	50V
C624	1-124-122-11	ELECT 100MF 20%	50V
C625	1-124-360-00	ELECT 1000MF 20%	15V
C626	1-124-907-11	ELECT 10MF 20%	50V
C627	1-163-009-11	CERAMIC CHIP 0.001MF 10%	50V
C631	1-124-927-11	ELECT 4.7MF 20%	50V
C632	1-163-009-11	CERAMIC CHIP 0.001MF 10%	50V
C633	1-163-117-00	CERAMIC CHIP 100PF 5%	50V
C801	1-126-105-11	ELECT 1000MF 20%	35V
C802	1-102-030-00	CERAMIC 330PF 10%	500V
C804	1-123-948-00	ELECT 22MF 20%	250V
C805	1-162-114-00	CERAMIC 0.0047MF	2KV
C806	1-136-165-00	FILM 0.1MF 5%	50V
C807	1-106-395-00	MYLAR 0.15MF 10%	200V
C810	1-123-024-21	ELECT 33MF	160V
C811	1-136-113-00	FILM 2MF	200V
		(KV-X2541D/KV-X2941D)	
	1-136-111-00	FILM 1MF 5%	200V
		(KV-X2141D)	
C812	1-124-634-11	ELECT 1MF 20%	250V
C813	1-102-212-00	CERAMIC 820PF 10%	500V

The components identified by shading and marked Δ are critical for safety.

Replace only with part number specified.

KV-X2141D/X2541D/X2941D

RM-816

D

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C814	1-161-754-00	CERAMIC	0.001MF 10% 2KV	D607	8-719-300-33	DIODE RU-3AM	
C815	1-136-540-11	FILM	0.82MF 5% 200V	D608	8-719-300-33	DIODE RU-3AM	
	1-136-111-00	FILM	1MF 5% 200V	D609	8-719-982-24	DIODE MTZJ-33A	
			(KV-X2141D/KV-X2541D)	D610	8-719-300-59	DIODE CTU-12S	
C817	1-136-591-11	FILM	0.017MF 3% 1.4KV	D611	8-719-900-26	DIODE ERD29-08J	
	1-136-565-11	FILM	0.015MF 3% 1.4KV	D612	8-719-300-59	DIODE CTU-12S	
			(KV-X2541D)	D613	8-719-302-43	DIODE EL1Z	
	1-136-549-11	FILM	0.0106MF 3% 1.4KV	D614	8-719-302-43	DIODE EL1Z	
			(KV-X2141D)	D616	8-719-109-93	DIODE MTZJ-6.2B	
C818	1-136-759-11	FILM	0.039MF 10% 630V	D617	8-719-911-19	DIODE 1SS119	
C819	1-161-754-00	CERAMIC	0.001MF 10% 2KV	D618	8-719-109-89	DIODE RD5.6ESB2	
C820	1-136-562-11	MYLAR	0.0082MF 10% 400V	D619	8-719-982-24	DIODE MTZJ-33A	
C821	1-162-134-11	CERAMIC	470PF 10% 2KV	D620	8-719-800-76	DIODE 1SS226	
			(KV-X2941D)	D621	8-719-982-24	DIODE MTZJ-33A	
	1-162-116-00	CERAMIC	680PF 10% 2KV	D622	8-719-911-19	DIODE 1SS119	
			(KV-X2141D/KV-X2541D)	D623	8-719-911-19	DIODE 1SS119	
C822	1-163-005-11	CERAMIC CHIP	470PF 10% 50V	D624	8-719-911-19	DIODE 1SS119	
C823	1-137-043-11	FILM	0.0047MF 10% 400V	D630	8-719-921-91	DIODE MTZJ-15A	
C824	1-102-212-00	CERAMIC	820PF 10% 500V	D801	8-719-300-33	DIODE RU-3AM	
C825	1-106-375-12	MYLAR	0.022MF 10% 250V	D802	8-719-300-33	DIODE RU-3AM	
C1601 Δ	1-136-518-11	FILM	0.33MF 20% 300V	D803	8-719-976-64	DIODE RGP02-17	
C1602 Δ	1-136-519-11	FILM	0.47MF 20% 300V	D804	8-719-911-55	DIODE U05G	
C1603 Δ	1-164-246-61	CERAMIC	0.0022MF 20% 400V	D805	8-719-911-55	DIODE U05G	
C1605 Δ	1-164-246-61	CERAMIC	0.0022MF 20% 400V	D806	8-719-945-80	DIODE ERC06-15S	
C1607 Δ	1-161-964-61	CERAMIC	0.0047MF 250V	D807	8-719-945-80	DIODE ERC06-15S	(KV-X2541D/KV-X2941D)
				D808	8-719-900-26	DIODE ERD29-08J	(KV-X2541D/KV-X2941D)
					8-719-928-08	DIODE ERD-28-08S	(KV-X2141D)
< FILTER >				< IC >			
CF001	1-577-364-11	VIBRATOR, CERAMIC		IC001	8-759-047-60	IC SDA20560-A012	
CF501	1-567-888-11	OSCILLATOR, CERAMIC		IC002	8-759-000-47	IC MC14051BCP	
				IC003	8-759-945-58	IC RC4558P	
				IC005	8-759-748-56	IC SDA2546	
				IC251	8-759-988-94	IC TDA2050	
					4-812-134-00	RIVET NYLON, 3.5	
				IC261	8-759-988-94	IC TDA2050	
					4-812-134-00	RIVET NYLON, 3.5	
				IC501	8-759-970-73	IC TEA2028B	
				IC502	8-759-944-57	IC TDA8170	
				IC601	8-759-988-95	IC TEA2260	
				IC604	8-759-510-52	IC TEA7605	
				IC608	8-759-929-62	IC LM7812CT	
				< COIL >			
				L501	1-408-225-00	INDUCTOR 3.3UH	
				L601	1-420-872-00	COIL, AIR CORE	
				L602	1-410-396-41	FERRITE BEAD INDUCTOR	
				L603	1-410-396-41	FERRITE BEAD INDUCTOR	
				L604	1-410-671-31	INDUCTOR 47UH	
				L605	1-459-585-11	COIL (WITH CORE) (DRUM TYPE)	
				L606	1-412-529-11	INDUCTOR 22UH	
				L607	1-410-671-31	INDUCTOR 47UH	
				L801	1-459-087-00	COIL, HCC DUST CORE 3.9MMH (KV-X2) 41D)	
				L803	1-459-104-00	COIL, WITH CORE	
				L804	1-408-239-00	INDUCTOR 4.7MMH	
				L805	1-459-907-11	COIL, HORIZONTAL LINEARITY (KV-X2941D)	
					1-059-755-11	COIL, HORIZONTAL LINEARITY (KV-X2541D)	
					1-459-652-12	HLC (KV-X2141D)	
				L806	1-459-087-00	COIL, HCC DUST CORE 3.9MMH (KV-X2941D)	
					1-459-111-00	COIL, DRAM CORE (CDI) (KV-X2541D)	
					1-459-115-00	COIL, DCC-H (KV-X2141D)	
D001	8-719-109-97	DIODE RD6.8ESB2					
D003	8-719-911-19	DIODE 1SS119					
D005	8-719-109-89	DIODE RD5.6ESB2					
D006	8-719-982-24	DIODE MTZJ-33A					
D007	8-719-982-08	DIODE MTZJ-3.9B					
D009	8-719-109-89	DIODE RD5.6ESB2					
D010	8-719-109-93	DIODE MTZJ-6.2B					
D011	8-719-109-93	DIODE MTZJ-6.2B					
D012	8-719-911-19	DIODE 1SS119					
D013	8-719-109-97	DIODE RD6.8ESB2					
D015	8-719-109-97	DIODE RD6.8ESB2					
D271	8-719-921-88	DIODE MTZJ-13B					
D272	8-719-911-19	DIODE 1SS119					
D501	8-719-911-19	DIODE 1SS119					
D504	8-719-911-55	DIODE U05G					
D506	8-719-800-76	DIODE 1SS226	(KV-X2141D/KV-X2541D)				
D508	8-719-911-19	DIODE 1SS119					
D509	8-719-911-19	DIODE 1SS119	(KV-X2541D/KV-X2941D)				
D511	8-719-911-55	DIODE U05G					
D512	8-719-911-55	DIODE U05G					
D513	8-719-010-34	DIODE UZ-4.7BSC					
D514	8-719-911-19	DIODE 1SS119	(KV-X2941D)				
D515	8-719-911-19	DIODE 1SS119	(KV-X2941D)				
D601	8-719-510-63	DIODE D4SB60L-F					
D602	8-719-300-33	DIODE RU-3AM					
D603	8-719-911-55	DIODE U05G					
D604	8-719-911-55	DIODE U05G					
D605	8-719-911-55	DIODE U05G					
D606	8-719-300-33	DIODE RU-3AM					

D

The components identified by shading and marked Δ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
L809	1-420-872-00	COIL, AIR CORE	
L810	1-421-794-21	TRANSFORMER, FERRITE (PMT)	(KV-X2941D)
	1-421-982-11	P.M.C	(KV-X2541D)
	1-459-390-00	COIL (WITH CORE)	(KV-X2141D)

< TRANSFORMER >

LF1601	Δ 1-421-866-12	LFT
LF1602	Δ 1-421-776-11	LFT
LF1603	Δ 1-421-862-11	LFT

< IC LINK >

PS601	Δ 1-532-984-91	LINK, IC 2A (ICP-N50)
PS602	Δ 1-532-984-91	LINK, IC 2A (ICP-N50)
PS603	Δ 1-532-679-91	LINK, IC 0.6A (ICP-N15)
PS604	Δ 1-532-984-91	LINK, IC 2A (ICP-N50)

< TRANSISTOR >

Q001	8-729-901-01	TRANSISTOR DTC144EK
Q002	8-729-901-01	TRANSISTOR DTC144EK
Q003	8-729-216-22	TRANSISTOR 2SA1162-G
Q004	8-729-216-22	TRANSISTOR 2SA1162-G
Q005	8-729-901-01	TRANSISTOR DTC144EK

Q006	8-729-901-01	TRANSISTOR DTC144EK
Q007	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q008	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q009	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q010	8-729-120-28	TRANSISTOR 2SC1623-L5L6

Q251	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q261	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q271	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q502	8-729-216-22	TRANSISTOR 2SA1162-G
Q505	8-729-140-96	TRANSISTOR 2SD774-34

Q506	8-729-140-97	TRANSISTOR 2SB734-34
Q507	8-729-216-22	TRANSISTOR 2SA1162-G
Q598	8-729-216-22	TRANSISTOR 2SA1162-G
Q601	8-729-122-03	TRANSISTOR 2SA1220A-P
Q602	8-729-209-02	TRANSISTOR 2SD1548-LB

Q603	8-729-122-03	TRANSISTOR 2SA1220A-P
Q604	8-729-216-22	TRANSISTOR 2SA1162-G
Q605	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q606	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q607	8-729-920-92	TRANSISTOR 2SD2096-EF

Q608	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q609	8-729-320-62	TRANSISTOR 2SD789-34
Q801	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q804	8-729-304-50	TRANSISTOR 2SD1941-06
Q805	8-729-119-80	TRANSISTOR 2SC2688-LK

< RESISTOR >

JR1	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR3	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR4	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR7	1-216-296-00	METAL GLAZE	0	5%	1/8W

R001	1-216-041-00	METAL GLAZE	470	5%	1/10W
R002	1-216-041-00	METAL GLAZE	470	5%	1/10W
R003	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R004	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R005	1-216-081-00	METAL GLAZE	22K	5%	1/10W

R006	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R007	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION	REMARK
R008	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R009	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R010	1-216-041-00	METAL GLAZE	470 5% 1/10W

R012	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R013	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R014	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R015	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R016	1-216-085-00	METAL GLAZE	33K 5% 1/10W

R017	1-216-689-11	METAL GLAZE	39K 5% 1/10W
R018	1-216-095-00	METAL GLAZE	82K 5% 1/10W
R019	1-216-025-00	METAL GLAZE	100 5% 1/10W
R020	1-216-025-00	METAL GLAZE	100 5% 1/10W
R021	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W

R022	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R024	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R025	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R026	1-216-182-00	METAL GLAZE	220 5% 1/8W
R027	1-216-025-00	METAL GLAZE	100 5% 1/10W

R028	1-216-025-00	METAL GLAZE	100 5% 1/10W
R029	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R030	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R031	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R032	1-216-073-00	METAL GLAZE	10K 5% 1/10W

R033	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R034	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R035	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R036	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R037	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W

R038	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R039	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R040	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R041	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R042	1-216-049-00	METAL GLAZE	1K 5% 1/10W

R043	1-216-041-00	METAL GLAZE	470 5% 1/10W
R044	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R045	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R046	1-216-095-00	METAL GLAZE	82K 5% 1/10W
R047	1-216-073-00	METAL GLAZE	10K 5% 1/10W

R048	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R049	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R050	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R051	1-216-041-00	METAL GLAZE	470 5% 1/10W
R052	1-216-049-00	METAL GLAZE	1K 5% 1/10W

R053	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R054	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R055	1-216-037-00	METAL GLAZE	330 5% 1/10W
R056	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R057	1-216-025-00	METAL GLAZE	100 5% 1/10W

R058	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R059	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R060	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R061	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R062	1-216-049-00	METAL GLAZE	1K 5% 1/10W

R063	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R064	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R065	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R066	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R067	1-216-073-00	METAL GLAZE	10K 5% 1/10W

R068	1-216-174-00	METAL GLAZE	100 5% 1/8W
R069	1-216-174-00	METAL GLAZE	100 5% 1/8W

D

REF.NO.	PART NO.	DESCRIPTION	REMARK
R070	1-216-198-00	METAL GLAZE 1K 5%	1/8W
R071	1-216-198-00	METAL GLAZE 1K 5%	1/8W
R072	1-216-222-00	METAL GLAZE 10K 5%	1/8W
R073	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R075	1-216-041-00	METAL GLAZE 470 5%	1/10W
R076	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R077	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R078	1-216-198-00	METAL GLAZE 1K 5%	1/8W
R079	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R080	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R081	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R083	1-216-025-00	METAL GLAZE 100 5%	1/10W
R084	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R085	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R086	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R087	1-216-035-00	METAL GLAZE 270 5%	1/10W
R088	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W
R093	1-216-073-00	METAL GLAZE 10K 5%	1/10W (KV-X2141D/KV-X2941D)
R094	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R095	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R096	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R098	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R251	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R252	1-216-039-00	METAL GLAZE 390 5%	1/10W
R253	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R254	1-216-357-00	METAL OXIDE 4.7 5%	1W F
R255	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R256	1-216-115-00	METAL GLAZE 560K 5%	1/10W
R257	1-216-077-00	METAL GLAZE 15K 5%	1/10W
R258	1-215-869-11	METAL OXIDE 1K 5%	1W F
R259	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R261	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R262	1-216-039-00	METAL GLAZE 390 5%	1/10W
R263	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R264	1-216-357-00	METAL OXIDE 4.7 5%	1W F
R265	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R266	1-216-115-00	METAL GLAZE 560K 5%	1/10W
R267	1-216-077-00	METAL GLAZE 15K 5%	1/10W
R268	1-215-869-11	METAL OXIDE 1K 5%	1W F
R269	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R270	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R271	1-216-045-00	METAL GLAZE 680 5%	1/10W
R272	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R273	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R274	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R500	1-216-115-00	METAL GLAZE 560K 5%	1/10W
R501	1-216-041-00	METAL GLAZE 470 5%	1/10W
R502	1-216-033-00	METAL GLAZE 220 5%	1/10W
R503	1-216-035-00	METAL GLAZE 270 5%	1/10W
R504	1-249-420-11	CARBON 1.8K 5%	1/4W
R505	1-216-077-00	METAL GLAZE 15K 5%	1/10W
R506	1-216-071-00	METAL GLAZE 8.2K 5%	1/10W
R509	1-216-063-00	METAL GLAZE 3.9K 5%	1/10W
R510	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
R514	1-216-033-00	METAL GLAZE 220 5%	1/10W
R515	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
R517	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R518	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R519	1-216-081-00	METAL GLAZE 22K 5%	1/10W

REF.NO.	PART NO.	DESCRIPTION	REMARK
R520	1-216-037-00	METAL GLAZE 330 5%	1/10W
R521	1-216-025-00	METAL GLAZE 100 5%	1/10W
R522	1-215-473-00	METAL 150K 1%	1/4W (KV-X2941D)
	1-215-469-00	METAL 100K 1%	1/4W (KV-X2141D/KV-X2541D)
R523	1-216-053-00	METAL GLAZE 1.5K 5%	1/10W (KV-X2941D)
	1-216-049-00	METAL GLAZE 1K 5%	1/10W (KV-X2141D/KV-X2541D)
R524	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R525	1-216-049-00	METAL GLAZE 1K 5%	1/10W (KV-X2141D/KV-X2541D)
R526	1-249-409-11	CARBON 220 5%	1/4W F
R527	1-216-077-00	METAL GLAZE 15K 5%	1/10W
R528	1-216-031-00	METAL GLAZE 180 5%	1/10W
R529	1-216-077-00	METAL GLAZE 15K 5%	1/10W (KV-X2941D)
	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W (KV-X2141D/KV-X2541D)
R530	1-249-448-11	CARBON 1.2 5%	1/4W F
R531	1-216-099-00	METAL GLAZE 120K 5%	1/10W (KV-X2541D/KV-X2941D)
R532	1-216-049-00	METAL GLAZE 1K 5%	1/10W (KV-X2541D/KV-X2941D)
R533	1-216-295-00	METAL GLAZE 0 5%	1/10W (KV-X2541D/KV-X2941D)
	1-216-031-00	METAL GLAZE 180 5%	1/10W (KV-X2141D)
R534	1-216-119-00	METAL GLAZE 820K 5%	1/10W
R535	1-249-749-00	CARBON 2.2M 5%	1/4W (KV-X2541D/KV-X2941D)
	1-249-753-15	CARBON 4.7M 5%	1/4W (KV-X2141D)
R536	1-216-129-00	METAL GLAZE 2.2M 5%	1/10W
R537	1-216-083-00	METAL GLAZE 27K 5%	1/10W
R538	1-216-101-00	METAL GLAZE 150K 5%	1/10W
R539	1-216-101-00	METAL GLAZE 150K 5%	1/10W
R540	1-216-013-00	METAL GLAZE 33 5%	1/10W
R541	1-216-091-00	METAL GLAZE 56K 5%	1/10W
R542	1-216-308-00	METAL GLAZE 4.7 5%	1/10W
R543	1-249-451-11	CARBON 2.2 5%	1/4W
R544	1-247-745-11	CARBON 330 5%	1/2W
R545	1-216-081-00	METAL GLAZE 22K 5%	1/10W (KV-X2541D/KV-X2941D)
	1-216-689-11	METAL GLAZE 39K 5%	1/10W (KV-X2141D)
R546	1-216-083-00	METAL GLAZE 27K 5%	1/10W
R547	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W (KV-X2541D/KV-X2941D)
	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W (KV-X2141D)
R548	1-216-349-00	METAL OXIDE 1 5%	1WF (KV-X2541D/KV-X2941D)
	1-216-350-11	METAL OXIDE 1.2 5%	1WF (KV-X2141D)
R549	1-216-454-11	METAL OXIDE 390 5%	2WF (KV-X2541D/KV-X2941D)
	1-215-890-11	METAL OXIDE 470 5%	2WF (KV-X2141D)
R550	1-216-095-00	METAL GLAZE 82K 5%	1/10W
R551	1-216-129-00	METAL GLAZE 2.2M 5%	1/10W
R552	1-216-433-00	METAL OXIDE 1.2K 5%	1W (KV-X2141D)

KV-X2141D/X2541D/X2941D

RM-816

D

The components identified by shading and marked Δ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
R553	1-215-869-11	METAL OXIDE 1K 5%	1W
R554	1-216-037-00	METAL GLAZE 330 5%	1/10W
R555	1-216-129-00	METAL GLAZE 2.2M 5%	1/10W
R556	1-216-025-00	METAL GLAZE 100 5%	1/10W
R557	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R558	1-216-113-00	METAL GLAZE 470K 5%	1/10W
R559	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W
R560	1-216-037-00	METAL GLAZE 330 5%	1/10W
R561	1-216-107-00	METAL GLAZE 270K 5%	1/10W (KV-X2941D)
R570	1-216-045-00	METAL GLAZE 680 5%	1/10W (KV-X2941D)
R591	1-216-047-00	METAL GLAZE 820 5%	1/10W
R592	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R593	1-216-053-00	METAL GLAZE 1.5K 5%	1/10W
R594	1-216-071-00	METAL GLAZE 8.2K 5%	1/10W
R597	1-216-041-00	METAL GLAZE 470 5%	1/10W
R598	1-215-901-00	METAL OXIDE 33K 5%	2W F
R600	1-249-381-11	CARBON 1 5%	1/4W (KV-X2541D/KV-X2941D)
R601	1-216-353-00	METAL OXIDE 2.2 5%	1W F
R603	1-216-469-11	METAL OXIDE 12 5%	3W F (KV-X2541D/KV-X2941D)
	1-215-906-11	METAL OXIDE 15 5%	3W F (KV-X2141D)
R604	1-216-025-00	METAL GLAZE 100 5%	1/10W
R605	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R606	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W
R607	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W (KV-X2941D)
	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W (KV-X2141D/KV-X2541D)
R608	1-216-488-11	METAL OXIDE 18K 5%	3W F
R609	1-216-007-00	METAL GLAZE 18 5%	1/10W
R610	1-244-941-00	CARBON 680K 5%	1/2W
R611	1-216-015-00	METAL GLAZE 39 5%	1/10W
R612	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R613	1-216-097-00	METAL GLAZE 100K 5%	1/10W
R614	1-205-758-11	WIREWOUND 100 10%	10W F
R616	1-216-099-00	METAL GLAZE 120K 5%	1/10W
R617	1-216-037-00	METAL GLAZE 330 5%	1/10W
R618	1-216-431-11	METAL OXIDE 560 5%	1W F
R619	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R620	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R621	1-216-077-00	METAL GLAZE 15K 5%	1/10W
R622	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R623	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R624	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
R625	1-215-865-11	METAL OXIDE 220 5%	1W F
R626	1-216-037-00	METAL GLAZE 330 5%	1/10W
R628	1-216-001-00	METAL GLAZE 10 5%	1/10W
R629	1-216-037-00	METAL GLAZE 330 5%	1/10W
R631	1-216-465-11	METAL OXIDE 27K 5%	2W F (KV-X2141D/KV-X2541D)
R633	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R634	1-216-430-11	METAL OXIDE 390 5%	1W F
R635	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R636	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R643	1-217-189-21	WIREWOUND 0.12 5%	2W F (KV-X2541D/KV-X2941D)
	1-217-190-21	WIRE WOUND 0.15 5%	2W F (KV-X2141D)

REF.NO.	PART NO.	DESCRIPTION	REMARK
R651	1-216-025-00	METAL GLAZE 100 5%	1/10W
R653	1-205-758-11	WIREWOUND 100 10%	10W F
R802	1-249-443-11	CARBON 0.47 5%	1/4W F
R805	1-249-448-11	CARBON 1.2 5%	1/4W F
R806	1-216-093-00	METAL GLAZE 68K 5%	1/10W
R807	1-217-778-11	FUSIBLE 1K 5%	1W F
R809	1-202-821-11	SOLID 1.8K 10%	1/2W
R810	1-202-818-00	SOLID 1K 10%	1/2W
R811	1-215-882-00	METAL OXIDE 22 5%	2W F (KV-X2541D/KV-X2941D)
	1-218-863-11	METAL OXIDE 100 5%	1W (KV-X2141D)
R812	1-247-281-00	CARBON 51K 5%	1/2W (KV-X2941D)
	1-249-494-11	CARBON 68K 5%	1/2W (KV-X2541D)
	1-247-285-00	CARBON 75K 5%	1/2W (KV-X2141D)
R815	1-215-884-11	METAL OXIDE 47 5%	2W F
R816	1-215-868-00	METAL OXIDE 680 5%	1W F
R817	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R820	1-249-403-11	CARBON 68 5%	1/4W
R821	1-247-725-11	CARBON 10K 5%	1/4W F
R822	1-217-778-11	FUSIBLE 1K 5%	1W F
R825	1-216-345-11	METAL OXIDE 0.47 5%	1W F (KV-X2541D/KV-X2941D)
	1-216-349-00	METAL OXIDE 1 5%	1W F (KV-X2141D)
R826	1-216-097-00	METAL GLAZE 100K 5%	1/10W
R827	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R828	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W
R829	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W
R831	1-249-451-11	CARBON 2.2 5%	1/4W
R1601 Δ	1-249-465-11	CARBON 47K 5%	1/4W
R1602 Δ	1-244-945-91	CARBON 1M 5%	1/2W
R1603 Δ	1-217-328-11	WIREWOUND 2.7 10%	7W F
R1604	1-249-465-11	CARBON 47K 5%	1/4W
R5501	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R5503	1-216-001-00	METAL GLAZE 10 5%	1/10W (KV-X2941D)
	1-216-308-00	METAL GLAZE 4.7 5%	1/10W (KV-X2141D/KV-X2541D)
R5504	1-216-121-00	METAL GLAZE 1M 5%	1/10W
R5505	1-216-001-00	METAL GLAZE 10 5%	1/10W
R5506	1-216-075-00	METAL GLAZE 12K 5%	1/10W (KV-X2941D)
R1605A Δ	1-218-265-91	METAL GLAZE 8.2M 5%	1W

< VARIABLE RESISTOR >

RV501	1-241-628-11	RES, ADJ, CARBON 2.2K
RV502	1-241-630-11	RES, ADJ, CARBON 10K
RV601	1-238-011-11	RES, ADJ, CARBON 470

< SPARK GAP >

SG801	1-519-422-11	GAP, SPARK
-------	--------------	------------

< TRANSFORMER >

T601 Δ	1-450-037-11	S.R.T (KV-X2941D)
T602 Δ	1-450-038-11	S.R.T (KV-X2141D/KV-X2541D)
T801 Δ	1-424-277-11	TRANSFORMER, TRIGGER PULSE
T802 Δ	1-437-090-00	HDT
	1-439-416-51	TRANSFORMER ASSY, FLYBACK UX-1651

The components identified by shading and marked Δ are critical for safety.
Replace only with part number specified.

KV-X2141D/X2541D/X2941D
RM-816

VM D V

REF.NO.	PART NO.	DESCRIPTION	REMARK
---------	----------	-------------	--------

< THERMISTOR >

THP601 Δ 1-808-059-32 THERMISTOR, POSITIVE

*1-634-193-11 VM BOARD (KV-X2941D ONLY)

< CONNECTOR >

VH73 *1-568-878-51 PIN, CONNECTOR 3P
VH88 *1-568-878-51 PIN, CONNECTOR 3P

< CAPACITOR >

C751	1-101-361-00	CERAMIC	150PF	5%	50V
C752	1-137-462-11	FILM	0.018MF	5%	100V
C753	1-106-367-00	MYLAR	0.01MF	10%	400V
C754	1-102-980-00	CERAMIC	270PF	5%	50V
C757	1-108-692-11	MYLAR	0.01MF	10%	200V
C759	1-124-907-11	ELECT	10MF	20%	50V
C760	1-124-917-11	ELECT	33MF	20%	50V
C761	1-101-006-00	CERAMIC	0.047MF		50V
C762	1-106-367-00	MYLAR	0.01MF	10%	400V

< COIL >

L751 1-408-413-00 INDUCTOR 22UH
L770 1-410-665-31 INDUCTOR 15UH

< TRANSISTOR >

Q751 8-729-119-78 TRANSISTOR 2SC2785-HFE
Q752 8-729-119-78 TRANSISTOR 2SC2785-HFE
Q753 8-729-140-97 TRANSISTOR 2SB734-34
Q754 8-729-140-96 TRANSISTOR 2SD774-34

< RESISTOR >

R751	1-249-418-11	CARBON	1.2K	5%	1/4W
R752	1-249-426-11	CARBON	5.6K	5%	1/4W
R753	1-249-414-11	CARBON	560	5%	1/4W
R754	1-249-434-11	CARBON	27K	5%	1/4W
R755	1-249-405-11	CARBON	100	5%	1/4W
R756	1-249-419-11	CARBON	1.5K	5%	1/4W
R757	1-249-405-11	CARBON	100	5%	1/4W
R758	1-249-409-11	CARBON	220	5%	1/4W
R760	1-249-411-11	CARBON	330	5%	1/4W
R761	1-249-429-11	CARBON	10K	5%	1/4W
R762	1-247-895-00	CARBON	470K	5%	1/4W
R763	1-249-429-11	CARBON	10K	5%	1/4W
R764	1-249-389-11	CARBON	4.7	5%	1/4W F
R765	1-249-389-11	CARBON	4.7	5%	1/4W F
R766	1-247-753-11	CARBON	1.2K	5%	1/2W
R767	1-247-751-11	CARBON	820	5%	1/2W
R768	1-215-887-00	METAL OXIDE	150	5%	2W F
R769	1-212-889-00	FUSIBLE	220	5%	1/4W F

A-1645-013-A V BOARD, COMPLETE

< CONNECTOR >

CNV1 *1-565-393-11 CONNECTOR, BOARD TO BOARD
CNV2 *1-565-393-11 CONNECTOR, BOARD TO BOARD

REF.NO.	PART NO.	DESCRIPTION	REMARK
---------	----------	-------------	--------

< CAPACITOR >

C1	1-126-101-11	ELECT	100MF	20%	16V
C2	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C3	1-124-120-11	ELECT	220MF	20%	16V
C4	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C5	1-124-120-11	ELECT	220MF	20%	16V
C6	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C10	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C11	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C12	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C13	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C14	1-124-927-11	ELECT	4.7MF	20%	50V
C15	1-126-233-11	ELECT	22MF	20%	50V
C16	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C17	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C18	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C26	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C27	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C28	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C29	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C32	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C33	1-163-038-00	CERAMIC CHIP	0.1MF		25V

< DIODE >

D1 8-719-105-91 DIODE RD5.6M-B2
D3 8-719-914-44 DIODE DAP202K
D4 8-719-400-18 DIODE MA152WK
D5 8-719-914-44 DIODE DAP202K
D6 8-719-400-18 DIODE MA152WK
D7 8-719-105-52 DIODE RD3.6M-B2
D9 8-719-106-17 DIODE RD6.8M-B2

< IC >

IC1 8-759-039-18 IC SDA20162-B002
IC2 8-759-045-54 IC SAA5246P/E/M4A
IC3 8-759-510-49 IC FCB61C65L-70P

< COIL >

L1 1-408-403-00 INDUCTOR 3.3UH
L2 1-408-407-00 INDUCTOR 6.8UH
L3 1-408-407-00 INDUCTOR 6.8UH
L4 1-408-407-00 INDUCTOR 6.8UH

< IC LINK >

PS1 Δ 1-532-679-91 LINK, IC (ICP-N15) 0.6A

< TRANSISTOR >

Q1 8-729-900-53 TRANSISTOR DTC114EK
Q2 8-729-920-92 TRANSISTOR 2SD2096-EF
Q3 8-729-120-28 TRANSISTOR 2SC1623-L5L6
Q4 8-729-120-28 TRANSISTOR 2SC1623-L5L6
Q5 8-729-807-87 TRANSISTOR 2SB1295-UL6
Q6 8-729-807-87 TRANSISTOR 2SB1295-UL6
Q7 8-729-807-87 TRANSISTOR 2SB1295-UL6
Q8 8-729-120-28 TRANSISTOR 2SC1623-L5L6

< RESISTOR >

JR01 1-216-295-00 METAL GLAZE 0 5% 1/10W

H2

H1

V

REF.NO.	PART NO.	DESCRIPTION	REMARK
JR02	1-216-295-00	METAL GLAZE 0 5%	1/10W
JR03	1-216-295-00	METAL GLAZE 0 5%	1/10W
JR08	1-216-295-00	METAL GLAZE 0 5%	1/10W
JR09	1-216-295-00	METAL GLAZE 0 5%	1/10W
JR11	1-216-295-00	METAL GLAZE 0 5%	1/10W
JR14	1-216-296-00	METAL GLAZE 0 5%	1/8W
JR17	1-216-295-00	METAL GLAZE 0 5%	1/10W
JR18	1-216-296-00	METAL GLAZE 0 5%	1/8W
JR19	1-216-296-00	METAL GLAZE 0 5%	1/8W
JR20	1-216-296-00	METAL GLAZE 0 5%	1/8W
JR21	1-216-296-00	METAL GLAZE 0 5%	1/8W
JR23	1-216-295-00	METAL GLAZE 0 5%	1/10W
JR24	1-216-296-00	METAL GLAZE 0 5%	1/8W
JR25	1-216-296-00	METAL GLAZE 0 5%	1/8W
JR26	1-216-296-00	METAL GLAZE 0 5%	1/8W
JR201	1-216-295-00	METAL GLAZE 0 5%	1/10W
JR204	1-216-295-00	METAL GLAZE 0 5%	1/10W
JR207	1-216-295-00	METAL GLAZE 0 5%	1/10W
JR208	1-216-295-00	METAL GLAZE 0 5%	1/10W
JR211	1-216-295-00	METAL GLAZE 0 5%	1/10W
JR213	1-216-295-00	METAL GLAZE 0 5%	1/10W
JR219	1-216-296-00	METAL GLAZE 0 5%	1/8W
JR220	1-216-295-00	METAL GLAZE 0 5%	1/10W
JR223	1-216-295-00	METAL GLAZE 0 5%	1/10W
R1	1-218-326-11	METAL GLAZE 470 5%	1/2W
R3	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R4	1-216-025-00	METAL GLAZE 100 5%	1/10W
R5	1-216-047-00	METAL GLAZE 820 5%	1/10W
R6	1-216-001-00	METAL GLAZE 10 5%	1/10W
R7	1-216-083-00	METAL GLAZE 27K 5%	1/10W
R8	1-216-071-00	METAL GLAZE 8.2K 5%	1/10W
R9	1-216-308-00	METAL GLAZE 4.7 5%	1/10W
R02	1-216-214-00	METAL GLAZE 4.7K 5%	1/8W
R10	1-218-325-11	METAL GLAZE 120 5%	1/4W
R11	1-218-325-11	METAL GLAZE 120 5%	1/4W
R12	1-218-325-11	METAL GLAZE 120 5%	1/4W
R13	1-216-025-00	METAL GLAZE 100 5%	1/10W
R14	1-216-001-00	METAL GLAZE 10 5%	1/10W
R15	1-216-013-00	METAL GLAZE 33 5%	1/10W
R16	1-216-013-00	METAL GLAZE 33 5%	1/10W
R17	1-216-013-00	METAL GLAZE 33 5%	1/10W
R18	1-216-025-00	METAL GLAZE 100 5%	1/10W
R19	1-216-025-00	METAL GLAZE 100 5%	1/10W
R20	1-216-041-00	METAL GLAZE 470 5%	1/10W
R21	1-216-041-00	METAL GLAZE 470 5%	1/10W
R22	1-216-168-00	METAL GLAZE 56 5%	1/8W
R23	1-216-214-00	METAL GLAZE 4.7K 5%	1/8W
R24	1-216-055-00	METAL GLAZE 1.8K 5%	1/10W
R25	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R26	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R27	1-216-214-00	METAL GLAZE 4.7K 5%	1/8W
R28	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
R34	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R35	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R40	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R41	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R42	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R44	1-216-295-00	METAL GLAZE 0 5%	1/10W
R46	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R47	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W

REF.NO.	PART NO.	DESCRIPTION	REMARK
R49	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R50	1-216-296-00	METAL GLAZE 0 5%	1/8W
< VARIABLE RESISTOR >			
RV1	1-241-627-11	RES, ADJ, CARBON 1K	
< CRYSTAL >			
X1	1-579-266-31	CRYSTAL VIBRATOR	
X2	1-577-364-11	VIBRATOR, CERAMIC	

	*1-638-392-11	H2, BOARD	*****
	*4-374-987-01	GUIDE, LIGHT	
	*4-381-686-01	BRACKET (B), LIGHT GUIDE	
< CONNECTOR >			
H2-2	*1-568-882-51	PIN, CONNECTOR 7P	
< DIODE >			
D1651	8-719-948-31	DIODE LD-201VR	
	*4-201-076-01	HOLDER, LED: D1651	
D1652	8-719-948-31	DIODE LD-201VR	
	*4-201-076-01	HOLDER, LED: D1652	
D1654	8-719-948-31	DIODE LD-201VR	
	*4-201-076-01	HOLDER, LED: D1654	
< IC >			
IC1651	8-741-101-75	IC SBX1610-11	
< RESISTOR >			
RI662	1-249-413-11	CARBON 470 5%	1/4W

	*1-638-391-11	H1, BOARD	*****
< CONNECTOR >			
H1-1	*1-568-881-51	PIN, CONNECTOR 6P	
H1-02	1-569-473-11	JACK BLOCK, PIN 3P	
H1-4	*1-568-879-51	PIN, CONNECTOR 4P	
H1-05	1-562-837-11	JACK	
H1-23	*1-568-879-51	PIN, CONNECTOR 4P	
H1-43	*1-564-512-11	PLUG, CONNECTOR 9P	
< CAPACITOR >			
C1651	1-102-106-00	CERAMIC 100PF	10% 50V
C1652	1-102-106-00	CERAMIC 100PF	10% 50V
C1653	1-102-074-00	CERAMIC 0.001MF	10% 50V
C1655	1-102-074-00	CERAMIC 0.001MF	10% 50V
< RESISTOR >			
RI651	1-249-413-11	CARBON 470 5%	1/4W
RI652	1-249-413-11	CARBON 470 5%	1/4W
< SWITCH >			
SI651	1-571-532-21	SWITCH, TACTIL	
SI652	1-571-532-21	SWITCH, TACTIL	

H1

J1

REF.NO.	PART NO.	DESCRIPTION	REMARK
---------	----------	-------------	--------

S1653	1-571-532-21	SWITCH, TACTIL	
-------	--------------	----------------	--

A-1651-018-A	J1 BOARD, COMPLETE (KV-X2141D/KV-X2541D)		
--------------	--	--	--

A-1651-038-A	J1 BOARD, COMPLETE (KV-X2941D)		
--------------	--------------------------------	--	--

< CONNECTOR >

CN1401	1-565-838-11	JACK BLOCK, PIN 2P	
J1-41	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P	
J1-43	*1-564-524-11	PLUG, CONNECTOR 9P	
J1-44	*1-564-527-11	PLUG, CONNECTOR 12P	
J1-51	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P	

< CAPACITOR >

C203	1-124-925-11	ELECT	2.2MF	20%	50V
C205	1-124-927-11	ELECT	4.7MF	20%	50V
C206	1-124-925-11	ELECT	2.2MF	20%	50V
C207	1-124-927-11	ELECT	4.7MF	20%	50V
C213	1-126-233-11	ELECT	22MF	20%	50V

C214	1-106-363-00	MYLAR	0.0068MF	10%	400V
C217	1-106-363-00	MYLAR	0.0068MF	10%	400V
C218	1-106-375-12	MYLAR	0.022MF	10%	250V
C219	1-106-375-12	MYLAR	0.022MF	10%	250V
C220	1-137-413-11	FILM	0.0033MF	10%	100V

C221	1-137-413-11	FILM	0.0033MF	10%	100V
C222	1-106-385-00	MYLAR	0.056MF	10%	100V
C223	1-106-385-00	MYLAR	0.056MF	10%	100V
C224	1-106-367-00	MYLAR	0.01MF	10%	400V
C225	1-136-173-00	FILM	0.47MF	5%	50V

C226	1-136-173-00	FILM	0.47MF	5%	50V
C227	1-106-375-12	MYLAR	0.022MF	10%	250V
C228	1-137-104-11	FILM	0.033MF	10%	250V
C229	1-136-204-11	MYLAR	0.015MF	10%	400V
C230	1-136-204-11	MYLAR	0.015MF	10%	400V

C231	1-124-902-00	ELECT	0.47MF	20%	50V
C232	1-124-907-11	ELECT	10MF	20%	50V
C233	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C234	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C235	1-163-005-11	CERAMIC CHIP	470PF	10%	50V

C236	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C237	1-124-902-00	ELECT	0.47MF	20%	50V
C238	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C239	1-126-103-11	ELECT	470MF	20%	16V
C240	1-163-018-00	CERAMIC CHIP	0.0056MF	10%	50V

C241	1-163-018-00	CERAMIC CHIP	0.0056MF	10%	50V
C242	1-163-033-00	CERAMIC CHIP	0.022MF		50V
C243	1-163-033-00	CERAMIC CHIP	0.022MF		50V
C244	1-163-033-00	CERAMIC CHIP	0.022MF		50V
C245	1-163-033-00	CERAMIC CHIP	0.022MF		50V

C1401	1-124-907-11	ELECT	10MF	20%	50V
C1402	1-126-103-11	ELECT	470MF	20%	16V
C1403	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C1404	1-136-165-00	FILM	0.1MF	5%	50V
C1405	1-163-029-11	CERAMIC CHIP	0.0047MF		50V

C1406	1-136-165-00	FILM	0.1MF	5%	50V
C1407	1-124-910-11	ELECT	47MF	20%	50V
C1408	1-124-122-11	ELECT	100MF	20%	50V
C1409	1-126-233-11	ELECT	22MF	20%	50V
C1410	1-124-907-11	ELECT	10MF	20%	50V

REF.NO.	PART NO.	DESCRIPTION	REMARK
---------	----------	-------------	--------

C1411	1-124-907-11	ELECT	10MF	20%	50V
C1412	1-124-910-11	ELECT	47MF	20%	50V
C1413	1-124-910-11	ELECT	47MF	20%	50V
C1414	1-124-907-11	ELECT	10MF	20%	50V
C1415	1-136-165-00	FILM	0.1MF	5%	50V

C1416	1-136-165-00	FILM	0.1MF	5%	50V
C1417	1-124-120-11	ELECT	220MF	20%	16V
C1418	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C1419	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C1425	1-124-902-00	ELECT	0.47MF	20%	50V

C1426	1-124-902-00	ELECT	0.47MF	20%	50V
C1427	1-163-029-11	CERAMIC CHIP	0.0047MF		50V
C1428	1-163-029-11	CERAMIC CHIP	0.0047MF		50V
C1429	1-163-029-11	CERAMIC CHIP	0.0047MF		50V
C1430	1-163-003-11	CERAMIC CHIP	330PF	10%	50V

C1431	1-126-529-11	ELECT	0.47MF	20%	50V
C1432	1-124-902-00	ELECT	0.47MF	20%	50V
C1433	1-124-122-11	ELECT	100MF	20%	50V
C1436	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C1437	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V

C1438	1-106-367-00	MYLAR	0.01MF	10%	400V
C1439	1-106-367-00	MYLAR	0.01MF	10%	400V
C1440	1-124-907-11	ELECT	10MF	20%	50V
C1441	1-124-907-11	ELECT	10MF	20%	50V
C1442	1-136-165-00	FILM	0.1MF	5%	50V

C1443	1-136-165-00	FILM	0.1MF	5%	50V
C1444	1-124-910-11	ELECT	47MF	20%	50V
C1445	1-102-824-00	CERAMIC	470PF	5%	50V
C1446	1-102-824-00	CERAMIC	470PF	5%	50V
C1501	1-124-927-11	ELECT	4.7MF	20%	50V

C1502	1-124-903-11	ELECT	1MF	20%	50V
C1503	1-137-410-11	FILM	0.001MF	10%	100V
C1504	1-124-910-11	ELECT	47MF	20%	50V
C1505	1-106-383-00	MYLAR	0.047MF	10%	100V
C1507	1-137-413-11	FILM	0.0033MF	10%	100V

C1508	1-124-903-11	ELECT	1MF	20%	50V
C1509	1-124-903-11	ELECT	1MF	20%	50V
C1511	1-124-927-11	ELECT	4.7MF	20%	50V
C1512	1-137-045-11	FILM	0.0068MF	10%	400V

(KV-X2141D/KV-X2541D)

C1513	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
-------	--------------	--------------	------	----	-----

C1514	1-137-102-11	FILM	0.022MF	10%	250V
-------	--------------	------	---------	-----	------

(KV-X2141D/KV-X2541D)

C1515	1-102-117-00	CERAMIC	820PF	10%	50V
-------	--------------	---------	-------	-----	-----

(KV-X2141D/KV-X2541D)

< DIODE >

D201	8-719-110-14	DIODE RD9.1ESB2
D202	8-719-110-14	DIODE RD9.1ESB2
D205	8-719-110-03	DIODE RD7.5ESB2
D206	8-719-110-03	DIODE RD7.5ESB2
D1401	8-719-110-03	DIODE RD7.5ESB2

D1403	8-719-110-03	DIODE RD7.5ESB2
D1404	8-719-110-03	DIODE RD7.5ESB2
D1405	8-719-110-03	DIODE RD7.5ESB2
D1406	8-719-110-03	DIODE RD7.5ESB2
D1407	8-719-921-77	DIODE MTZN-10C

D1408	8-719-110-14	DIODE RD9.1ESB3
D1409	8-719-110-14	DIODE RD9.1ESB3
D1410	8-719-110-14	DIODE RD9.1ESB3

J1

REF.NO.	PART NO.	DESCRIPTION	REMARK
D1415	8-719-110-03	DIODE RD7.5ESB2	
D1418	8-719-110-03	DIODE RD7.5ESB2	
D1419	8-719-110-03	DIODE RD7.5ESB2	
D1420	8-719-110-03	DIODE RD7.5ESB2	
D1421	8-719-110-03	DIODE RD7.5ESB2	
D1422	8-719-110-03	DIODE RD7.5ESB2	
D1423	8-719-110-03	DIODE RD7.5ESB2	
D1424	8-719-110-03	DIODE RD7.5ESB2	
D1425	8-719-110-03	DIODE RD7.5ESB2	
D1426	8-719-110-03	DIODE RD7.5ESB2	
D1501	8-719-300-33	DIODE RU-3AM	
D1502	8-719-911-19	DIODE 1SS119	
D1503	8-719-911-19	DIODE 1SS119	
D1504	8-719-911-19	DIODE 1SS119	
D1505	8-719-911-19	DIODE 1SS119	
D1506	8-719-982-33	DIODE MTZJ-36D	
D1507	8-719-911-19	DIODE 1SS119	
D1510	8-719-911-19	DIODE 1SS119	
< IC >			
IC201	8-759-013-17	IC TDA6200	
IC1401	8-752-032-27	IC CXA1114P	
IC1402	8-759-946-32	IC TEA2014A	
IC1403	8-759-140-53	IC UPD4053BC	
IC1501	8-759-942-16	IC TEA2031A	
< JACK >			
J1402	1-561-534-41	SOCKET, PIN 21P	
J1403	1-561-534-41	SOCKET, PIN 21P	
< TRANSISTOR >			
Q201	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q202	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1401	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1402	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1403	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1404	8-729-216-22	TRANSISTOR 2SA1162-G	
< RESISTOR >			
R201	1-216-079-00	METAL GLAZE 18K 5% 1/10W	
R202	1-216-206-00	METAL GLAZE 2.2K 5% 1/8W	
R203	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R204	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R205	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R206	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R207	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R208	1-216-077-00	METAL GLAZE 15K 5% 1/10W	
R209	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R210	1-216-077-00	METAL GLAZE 15K 5% 1/10W	
R211	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R212	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R213	1-216-077-00	METAL GLAZE 15K 5% 1/10W	
R214	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R215	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R216	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R217	1-216-077-00	METAL GLAZE 15K 5% 1/10W	
R218	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R219	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R220	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	

REF.NO.	PART NO.	DESCRIPTION	REMARK
R221	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R222	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R223	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R224	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R225	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R226	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R227	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R228	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R229	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R230	1-216-079-00	METAL GLAZE 18K 5% 1/10W	
R231	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R232	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R233	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R234	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R235	1-216-295-00	METAL GLAZE 0 5% 1/10W	
R236	1-216-295-00	METAL GLAZE 0 5% 1/10W	
R240	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R241	1-216-091-00	METAL GLAZE 56K 5% 1/10W	
R242	1-216-091-00	METAL GLAZE 56K 5% 1/10W	
R243	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R244	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
R245	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R246	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
R247	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R248	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
R249	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R250	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
R1400	1-216-295-00	METAL GLAZE 0 5% 1/10W	
R1401	1-216-023-00	METAL GLAZE 82 5% 1/10W	
R1402	1-216-170-00	METAL GLAZE 68 5% 1/8W	
R1403	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R1404	1-216-178-00	METAL GLAZE 150 5% 1/8W	
R1405	1-249-434-11	CARBON 27K 5% 1/4W	
R1407	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R1408	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R1409	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R1410	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R1411	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R1412	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R1413	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R1414	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R1415	1-216-083-00	METAL GLAZE 27K 5% 1/10W	
R1416	1-216-083-00	METAL GLAZE 27K 5% 1/10W	
R1417	1-216-023-00	METAL GLAZE 82 5% 1/10W	
R1418	1-247-738-11	CARBON 82 5% 1/2W F	
R1419	1-216-295-00	METAL GLAZE 0 5% 1/10W	
R1420	1-216-295-00	METAL GLAZE 0 5% 1/10W	
R1421	1-216-295-00	METAL GLAZE 0 5% 1/10W	
R1422	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R1423	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R1424	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R1425	1-216-045-00	METAL GLAZE 680 5% 1/10W	
R1426	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R1427	1-216-001-00	METAL GLAZE 10 5% 1/10W	
R1428	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R1429	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R1430	1-216-170-00	METAL GLAZE 68 5% 1/8W	
R1431	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R1432	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R1433	1-216-033-00	METAL GLAZE 220 5% 1/10W	

J1

IFG

REF.NO.	PART NO.	DESCRIPTION	REMARK
R1434	1-249-393-11	CARBON 10 5%	1/4W F
R1437	1-249-434-11	CARBON 27K 5%	1/4W
R1440	1-216-045-00	METAL GLAZE 680 5%	1/10W
R1441	1-216-045-00	METAL GLAZE 680 5%	1/10W
R1442	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R1443	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R1444	1-216-033-00	METAL GLAZE 220 5%	1/10W
R1445	1-216-095-00	METAL GLAZE 82K 5%	1/10W
R1446	1-216-033-00	METAL GLAZE 220 5%	1/10W
R1447	1-216-033-00	METAL GLAZE 220 5%	1/10W
R1448	1-216-025-00	METAL GLAZE 100 5%	1/10W
R1449	1-216-023-00	METAL GLAZE 82 5%	1/10W
R1452	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1453	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1454	1-216-180-00	METAL GLAZE 180 5%	1/8W
R1455	1-216-180-00	METAL GLAZE 180 5%	1/8W
R1457	1-216-025-00	METAL GLAZE 100 5%	1/10W
R1459	1-216-025-00	METAL GLAZE 100 5%	1/10W
R1460	1-216-053-00	METAL GLAZE 1.5K 5%	1/10W
R1461	1-216-190-00	METAL GLAZE 470 5%	1/8W
R1462	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R1463	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1464	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
R1465	1-216-023-00	METAL GLAZE 82 5%	1/10W
R1466	1-216-033-00	METAL GLAZE 220 5%	1/10W
R1467	1-216-025-00	METAL GLAZE 100 5%	1/10W
R1468	1-216-025-00	METAL GLAZE 100 5%	1/10W
R1469	1-216-025-00	METAL GLAZE 100 5%	1/10W
R1470	1-216-025-00	METAL GLAZE 100 5%	1/10W
R1471	1-216-023-00	METAL GLAZE 82 5%	1/10W
R1472	1-216-023-00	METAL GLAZE 82 5%	1/10W
R1473	1-216-023-00	METAL GLAZE 82 5%	1/10W
R1474	1-216-113-00	METAL GLAZE 470K 5%	1/10W
R1476	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R1477	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R1478	1-216-113-00	METAL GLAZE 470K 5%	1/10W
R1480	1-216-190-00	METAL GLAZE 470 5%	1/8W
R1482	1-216-178-00	METAL GLAZE 150 5%	1/8W
R1483	1-216-178-00	METAL GLAZE 150 5%	1/8W
R1484	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R1485	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R1486	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R1487	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R1488	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R1489	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R1501	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R1502	1-216-083-00	METAL GLAZE 27K 5%	1/10W
R1503	1-216-113-00	METAL GLAZE 470K 5%	1/10W
R1504	1-216-085-00	METAL GLAZE 33K 5%	1/10W
R1505	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R1506	1-216-113-00	METAL GLAZE 470K 5%	1/10W
R1509	1-216-105-00	METAL GLAZE 220K 5%	1/10W
R1510	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
R1511	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1512	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R1513	1-216-091-00	METAL GLAZE 56K 5%	1/10W
R1514	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1515	1-216-117-00	METAL GLAZE 680K 5%	1/10W (KV-X2141D/KV-X2541D)
R1516	1-216-079-00	METAL GLAZE 18K 5%	1/10W
R1517	1-216-033-00	METAL GLAZE 220 5%	1/10W

REF.NO.	PART NO.	DESCRIPTION	REMARK
R1519	1-216-101-00	METAL GLAZE 150K 5%	1/10W
R1520	1-216-111-00	METAL GLAZE 390K 5%	1/10W (KV-X2941D)
	1-216-113-00	METAL GLAZE 470K 5%	1/10W (KV-X2141D/KV-X2541D)
R1521	1-216-214-00	METAL GLAZE 4.7K 5%	1/8W
R1550	1-216-349-00	METAL OXIDE 1 5%	1W F (KV-X2941D)
R1556	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
< VARIABLE RESISTOR >			
RV1501	1-238-023-11	RES, ADJ, CARBON 470K	
RV1502	1-241-630-11	RES, ADJ, CARBON 10K	
RV1503	1-241-631-11	RES, ADJ, CARBON 22K	
RV1504	1-241-627-11	RES, ADJ, CARBON 1K	
RV1505	1-238-023-11	RES, ADJ, CARBON 470K	
RV1506	1-241-631-11	RES, ADJ, CARBON 22K	
RV1507	1-238-009-11	RES, ADJ, CARBON 220	
RV1508	1-241-630-11	RES, ADJ, CARBON 10K	
RV1509	1-238-023-11	RES, ADJ, CARBON 470K	

*A-1654-008-A IFG BOARD, COMPLETE			

< CONNECTOR >			
IFG13	*1-565-488-11	CONNECTOR, BOARD TO BOARD 12P	
< CAPACITOR >			
C1	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C2	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C3	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C4	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C5	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C6	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C7	1-124-903-11	ELECT 1MF	20% 50V
C8	1-124-907-11	ELECT 10MF	20% 50V
C9	1-130-471-00	MYLAR 0.001MF	5% 50V
C10	1-163-121-00	CERAMIC CHIP 150PF	5% 50V
C11	1-163-119-00	CERAMIC CHIP 120PF	5% 50V
C12	1-136-298-00	FILM 0.0033MF	2% 100V
C13	1-124-477-11	ELECT 47MF	20% 16V
C14	1-124-477-11	ELECT 47MF	20% 16V
C15	1-124-477-11	ELECT 47MF	20% 16V
C16	1-124-477-11	ELECT 47MF	20% 16V
C17	1-124-907-11	ELECT 10MF	20% 50V
C18	1-106-367-00	MYLAR 0.01MF	10% 400V
C19	1-106-367-00	MYLAR 0.01MF	10% 400V
C20	1-126-233-11	ELECT 22MF	20% 50V
C21	1-126-233-11	ELECT 22MF	20% 50V
C22	1-136-165-00	FILM 0.1MF	5% 50V
C23	1-136-169-00	FILM 0.22MF	5% 50V
C24	1-124-034-51	ELECT 33MF	20% 16V
C25	1-106-375-12	MYLAR 0.022MF	10% 250V
C26	1-106-383-00	MYLAR 0.047MF	10% 100V
C27	1-124-903-11	ELECT 1MF	20% 50V
C28	1-163-109-00	CERAMIC CHIP 47PF	5% 50V
C29	1-124-903-11	ELECT 1MF	20% 50V
C30	1-124-903-11	ELECT 1MF	20% 50V

IFG

The components identified by shading and marked Δ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
C31	1-106-367-00	MYLAR 0.01MF	10% 400V
C32	1-130-479-00	MYLAR 0.0047MF	5% 50V
C33	1-163-081-00	CERAMIC CHIP 0.22MF	25V
C34	1-136-169-00	FILM 0.22MF	5% 50V
C35	1-124-907-11	ELECT 10MF	20% 50V
C36	1-163-119-00	CERAMIC CHIP 120PF	5% 50V
C37	1-124-477-11	ELECT 47MF	20% 16V
C38	1-124-477-11	ELECT 47MF	20% 16V
C39	1-163-133-00	CERAMIC CHIP 470PF	5% 50V

< FILTER >

CDA1	1-404-751-11	DISCRIMINATOR, CERAMIC
CDA2	1-404-750-11	DISCRIMINATOR, CERAMIC

< DIODE >

D3	8-719-400-18	DIODE MA152WK
----	--------------	---------------

< IC >

IC1	8-759-003-90	IC TBA129
IC2	8-759-003-90	IC TBA129
IC3	8-759-030-48	IC TDA6600-2
IC4	8-759-513-48	IC TDA2595/V9

< COIL >

L1	1-408-410-00	INDUCTOR 12UH
L2	1-408-410-00	INDUCTOR 12UH
L3	1-410-064-11	INDUCTOR 2.7MMH
L4	1-408-421-00	INDUCTOR 100UH
L5	1-408-421-00	INDUCTOR 100UH

< TRANSISTOR >

Q2	8-729-901-00	TRANSISTOR DTC124EK
Q3	8-729-216-22	TRANSISTOR 2SA1162-G
Q4	8-729-901-00	TRANSISTOR DTC124EK

< RESISTOR >

JR8	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR10	1-216-296-00	METAL GLAZE 0 5% 1/8W
R1	1-216-045-00	METAL GLAZE 680 5% 1/10W
R2	1-216-043-00	METAL GLAZE 560 5% 1/10W
R3	1-216-043-00	METAL GLAZE 560 5% 1/10W
R5	1-216-045-00	METAL GLAZE 680 5% 1/10W
R6	1-216-043-00	METAL GLAZE 560 5% 1/10W
R7	1-216-043-00	METAL GLAZE 560 5% 1/10W
R9	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R11	1-216-095-00	METAL GLAZE 82K 5% 1/10W
R12	1-216-097-00	METAL GLAZE 100K 5% 1/10W
R13	1-216-071-00	METAL GLAZE 8.2K 5% 1/10W
R15	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W
R16	1-216-097-00	METAL GLAZE 100K 5% 1/10W
R17	1-216-097-00	METAL GLAZE 100K 5% 1/10W
R18	1-216-063-00	METAL GLAZE 3.9K 5% 1/10W
R19	1-216-097-00	METAL GLAZE 100K 5% 1/10W
R20	1-216-075-00	METAL GLAZE 12K 5% 1/10W
R22	1-216-099-00	METAL GLAZE 120K 5% 1/10W
R24	1-216-089-00	METAL GLAZE 47K 5% 1/10W
R25	1-216-077-00	METAL GLAZE 15K 5% 1/10W

< VARIABLE RESISTOR >

RV1	1-241-630-11	RES, ADJ, CARBON 10K
-----	--------------	----------------------

REF.NO.	PART NO.	DESCRIPTION	REMARK
RV2	1-241-632-11	RES, ADJ, CARBON 47K	
< FILTER >			
SFT1	1-527-840-00	FILTER, CERAMIC	
SFT2	1-527-839-00	FILTER, CERAMIC	

MISCELLANEOUS

PART NO.	DESCRIPTION	REMARK
Δ 1-426-383-11	COIL, DEMAGNETIZATION	(KV-X2141D)
Δ 1-460-091-11	COIL, DEGAUSS	(KV-X2541D)
Δ 1-426-398-11	COIL, DEMAGNETIZATION	(KV-X2941D)
Δ 1-451-295-11	DEFLECTION YOKE (Y21PPA2)	(KV-X2141D)
Δ 1-451-311-21	DEFLECTION YOKE (Y25FXA)	(KV-X2541D)
Δ 1-451-313-21	DEFLECTION YOKE (Y29FXA)	(KV-X2541D)
1-452-032-00	MAGNET, DISK; 10MM	
1-452-094-00	MAGNET, ROTATABLE DISK; 15MM	
1-452-277-00	MAGNET, MAGNET BMC	(KV-X2141D)
Δ 1-452-509-42	NECK ASSY, PICTURE TUBE (M-308)	(KV-X2941D)
1-544-525-11	SPEAKER	
Δ 1-590-501-11	CORD, POWER (WITH NOISE FILTER)	
V901 Δ 8-738-758-05	PICTURE TUBE (A51JHX61X)	(KV-X2141D)
Δ 8-733-231-05	PICTURE TUBE (A59JWC61X)	(KV-X2541D)
Δ 8-733-831-05	PICTURE TUBE (A68JYK61X)	(KV-X2941D)

ACCESSORIES AND PACKING MATERIALS

PART NO.	DESCRIPTION	REMARK
4-202-292-11	MANUAL, INSTRUCTION (GERMAN/ENGLISH/DUTCH)	
*4-380-340-61	BAG, PROTECTION (KV-X2141D/KV-X2541D)	
*4-384-027-01	BAG, PROTECTION (KV-X2941D)	
*4-200-172-01	CUSHION (UPPER) (ASSY) (KV-X2141D)	
*4-200-176-03	CUSHION (UPPER) (ASSY) (KV-X2541D)	
*4-398-903-01	CUSHION (UPPER) (ASSY) (KV-X2941D)	
*4-200-173-01	CUSHION (LOWER) (ASSY) (KV-X2141D)	
*4-200-177-01	CUSHION (LOWER) (ASSY) (KV-X2541D)	
*4-398-904-01	CUSHION (LOWER) (ASSY) (KV-X2941D)	
*4-202-291-01	INDIVIDUAL CARTON (KV-X2141D)	
*4-202-290-01	INDIVIDUAL CARTON (KV-X2541D)	
*4-398-905-01	INDIVIDUAL CARTON (KV-X2941D)	

REMOTE COMMANDER

1-465-796-11	CONTROL UNIT, REMOTE (RM-815)
4-031-670-01	COVER, POCKET (FOR RM-816)

KV-X2141D/X2541D/X2941D⁶⁵⁷⁸¹

RM-816

SONY SERVICE MANUAL

AEP Model
KV-X2141D
Chassis No. SCC-F07M-A
KV-X2541D
Chassis No. SCC-F07N-A
KV-X2941D
Chassis No. SCC-F07L-A

SUPPLEMENT-1

File this Supplement with the Service Manual.

1. INTRODUCTION

- KV-X2941D Schematic Diagrams, Printed Wiring Boards Exploded Views and Electrical Parts List has been Changed. (SERIAL NO. 4,000,001 and later)

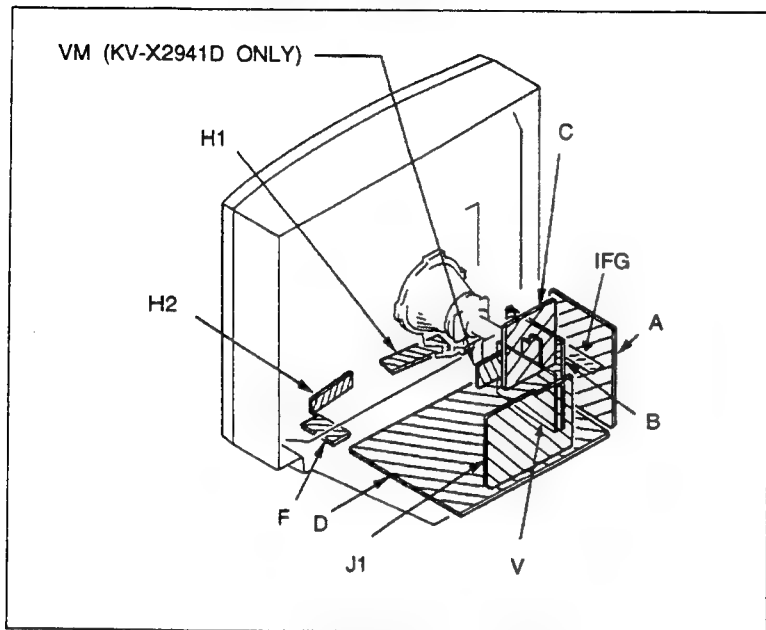
TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page</u>
1.	DIAGRAMS	
1-1.	Circuit Boards Location	2
1-2.	Schematic Diagrams and Printed Wiring Boards	2
	• D Board	3
	• A, C, F, H1, H2, IFG, J1, V and VM Boards	10
	• B Board	19
2.	EXPLODED VIEWS	
2-1.	Chassis	25
2-2.	Picture Tube	26
3.	ELECTRICAL PARTS LIST	27



SECTION 1 DIAGRAMS

1-1. CIRCUIT BOARDS LOCATION



1-2. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS — Conductor Side —

Note:

- All capacitors are in μF unless otherwise noted.
 pF : μF 50WV or less are not indicated except for electrolytic and tantalums.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm

Rating electrical power 1/4W

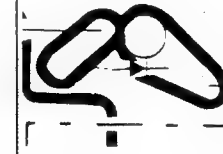
- All resistors are in ohms.
 $\text{k}\Omega=1000\Omega$, $\text{M}\Omega=1000\text{k}\Omega$
- : nonflammable resistor.
- : internal component.
- : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : earth-ground.
- : earth-chassis.
- All voltages are in V.
- Voltage are dc with respect to ground unless otherwise noted.
- Readings are taken with a 10 M Ω digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerance.
- Circled numbers are waveform references.
- : B+ line.
- : signal path. (RF)

Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RW	NONFLAMMABLE WIREWOUND
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
COIL	: *	ADJUSTABLE RESISTOR
	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

Note:

The components identified by shading and mark are critical for safety. Replace only with part number specified.

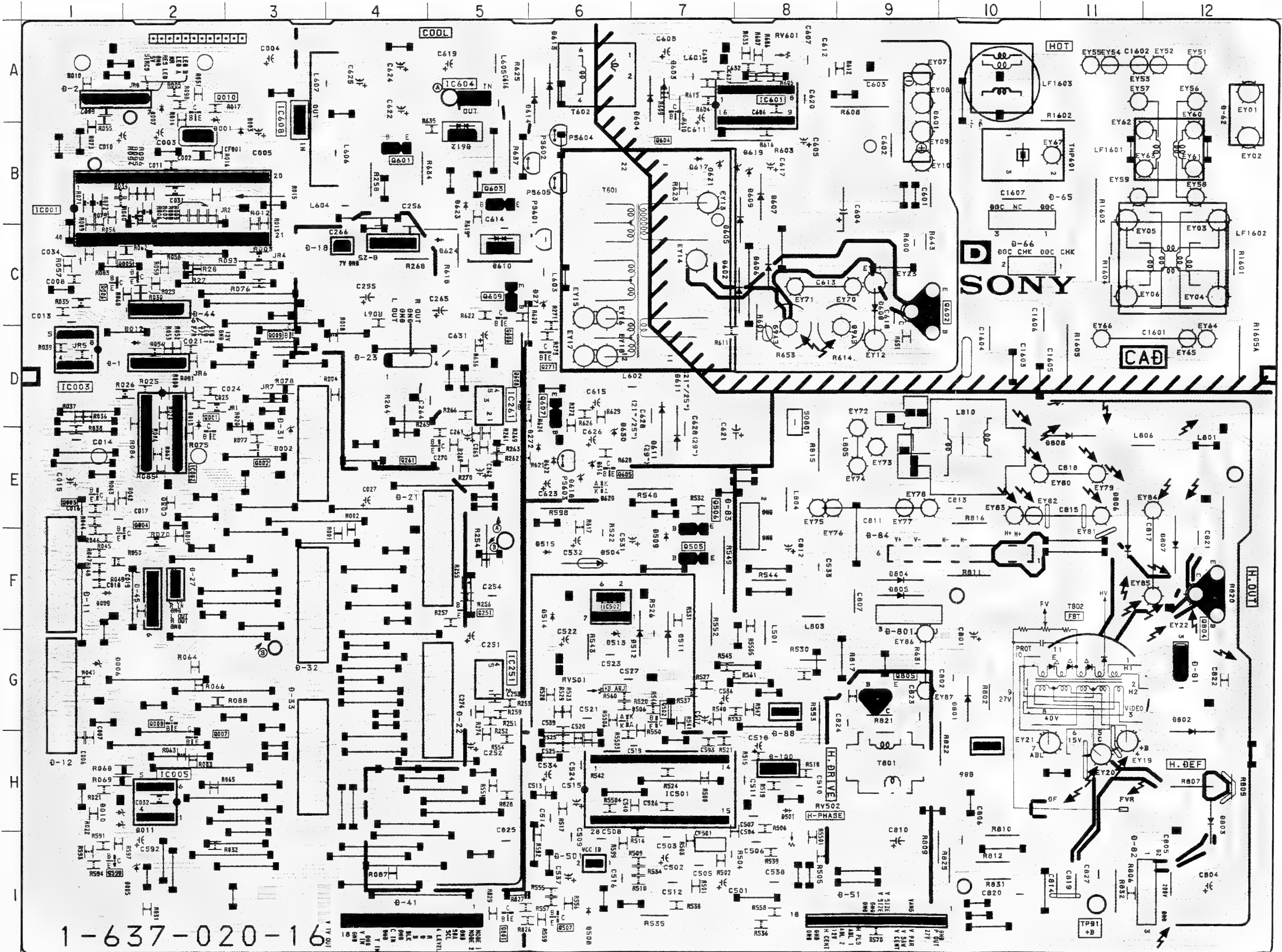
D TUNING CONTROL, POWER CONTROL,
AUDIO OUT, HV OUT**NOTE:**

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

— D Board —

IC	D012 D-2
IC001 B-1	D013 D-2
IC002 E-2	D271 C-6
IC003 D-1	D272 E-5
IC005 H-2	D501 H-8
IC251 G-5	D504 F-6
IC261 D-5	D506 G-7
IC501 H-7	D508 I-6
IC502 F-6	D509 F-7
IC601 A-8	D511 G-7
IC604 A-5	D512 G-7
IC608 A-3	D513 G-6
	D514 F-6
TRANSISTOR	D515 F-6
Q001 D-2	D601 A-9
Q002 E-3	D602 C-7
Q003 E-1	D603 A-7
Q004 E-2	D604 A-7
Q005 C-1	D605 C-7
Q006 C-1	D606 C-8
Q007 G-2	D607 B-8
Q008 G-2	D608 C-9
Q009 D-3	D609 B-8
Q010 A-2	D610 C-5
Q251 F-5	D611 D-7
Q261 E-4	D612 B-5
Q271 D-6	D613 A-6
Q502 G-7	D614 A-5
Q505 F-7	D616 E-6
Q506 E-7	D617 B-7
Q507 I-6	D618 E-6
Q598 I-1	D619 B-8
Q601 B-4	D620 E-6
Q602 C-9	D621 B-7
Q603 B-5	D622 E-6
Q604 B-7	D623 B-5
Q605 E-6	D624 C-5
Q606 D-5	D630 E-6
Q607 D-6	D801 G-10
Q608 D-5	D802 G-12
Q609 C-5	D803 H-13
Q801 I-5	D804 F-9
Q804 F-12	D805 F-9
Q805 G-9	D806 E-11
DIODE	D807 F-12
D001 B-2	D808 E-11
D003 B-3	
D005 I-2	
D006 G-1	
D007 A-2	
D009 F-1	
D010 H-1	
D011 H-2	
VARIABLE RESISTOR	
RV501 G-6	
RV502 H-8	
RV601 A-8	
TEST POINT	
TP91 I-11	

— D Board —



KV-X2141D/X2541D/X2941D

65264

RM-816

SONY SERVICE MANUAL

AEP Model

KV-X2141D

Chassis No. SCC-F07M-A

KV-X2541D

Chassis No. SCC-F07N-A

KV-X2941D

Chassis No. SCC-F07L-A

CORRECTION-1

SUBJECT : PARTS CHANGE

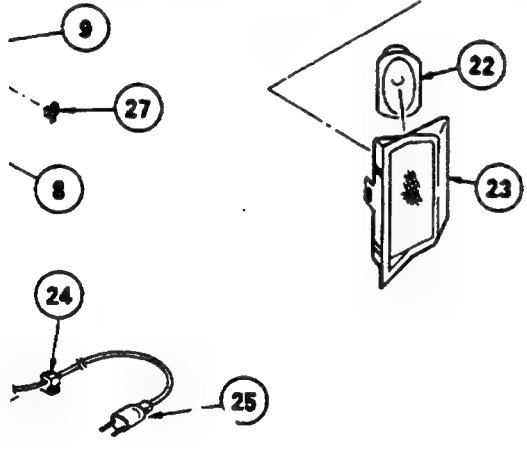
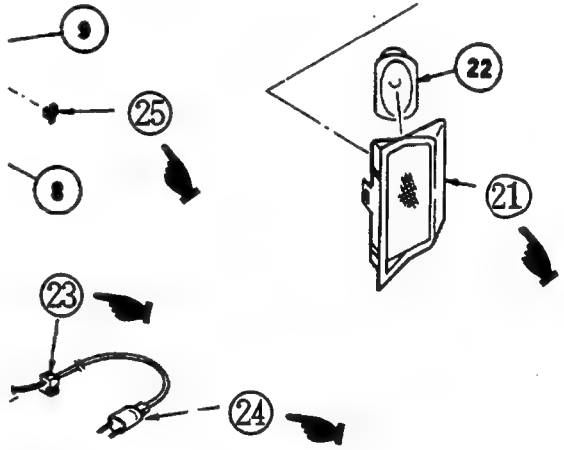
Correct the service manual as shown below.

File this collection with the service manual.

 : Corrected portion

SECTION 6 EXPLODED VIEWS

6-1. CHASSIS (KV-X2941D only) (See page 63)

Incorrect	Correct																								
																									
<table><tr><th>REF. NO.</th><th>PART. NO.</th><th>DESCRIPTION</th></tr><tr><td>23</td><td>▲ 4-389-201-01</td><td>HOLDER, AC CORD</td></tr><tr><td>24</td><td>▲ 1-590-501-11</td><td>CORD,POWER (WITH NOISE FILTER)</td></tr><tr><td>26</td><td>* 3-646-071-00</td><td>HOLDER, WIRE</td></tr></table>	REF. NO.	PART. NO.	DESCRIPTION	23	▲ 4-389-201-01	HOLDER, AC CORD	24	▲ 1-590-501-11	CORD,POWER (WITH NOISE FILTER)	26	* 3-646-071-00	HOLDER, WIRE	<table><tr><th>REF. NO.</th><th>PART. NO.</th><th>DESCRIPTION</th></tr><tr><td>23</td><td>▲ 4-389-201-01</td><td>HOLDER, AC CORD</td></tr><tr><td>24</td><td>▲ 1-751-680-11</td><td>CORD,POWER (WITH NOISE FILTER)</td></tr><tr><td>25</td><td>* 3-646-071-00</td><td>HOLDER, WIRE</td></tr></table>	REF. NO.	PART. NO.	DESCRIPTION	23	▲ 4-389-201-01	HOLDER, AC CORD	24	▲ 1-751-680-11	CORD,POWER (WITH NOISE FILTER)	25	* 3-646-071-00	HOLDER, WIRE
REF. NO.	PART. NO.	DESCRIPTION																							
23	▲ 4-389-201-01	HOLDER, AC CORD																							
24	▲ 1-590-501-11	CORD,POWER (WITH NOISE FILTER)																							
26	* 3-646-071-00	HOLDER, WIRE																							
REF. NO.	PART. NO.	DESCRIPTION																							
23	▲ 4-389-201-01	HOLDER, AC CORD																							
24	▲ 1-751-680-11	CORD,POWER (WITH NOISE FILTER)																							
25	* 3-646-071-00	HOLDER, WIRE																							



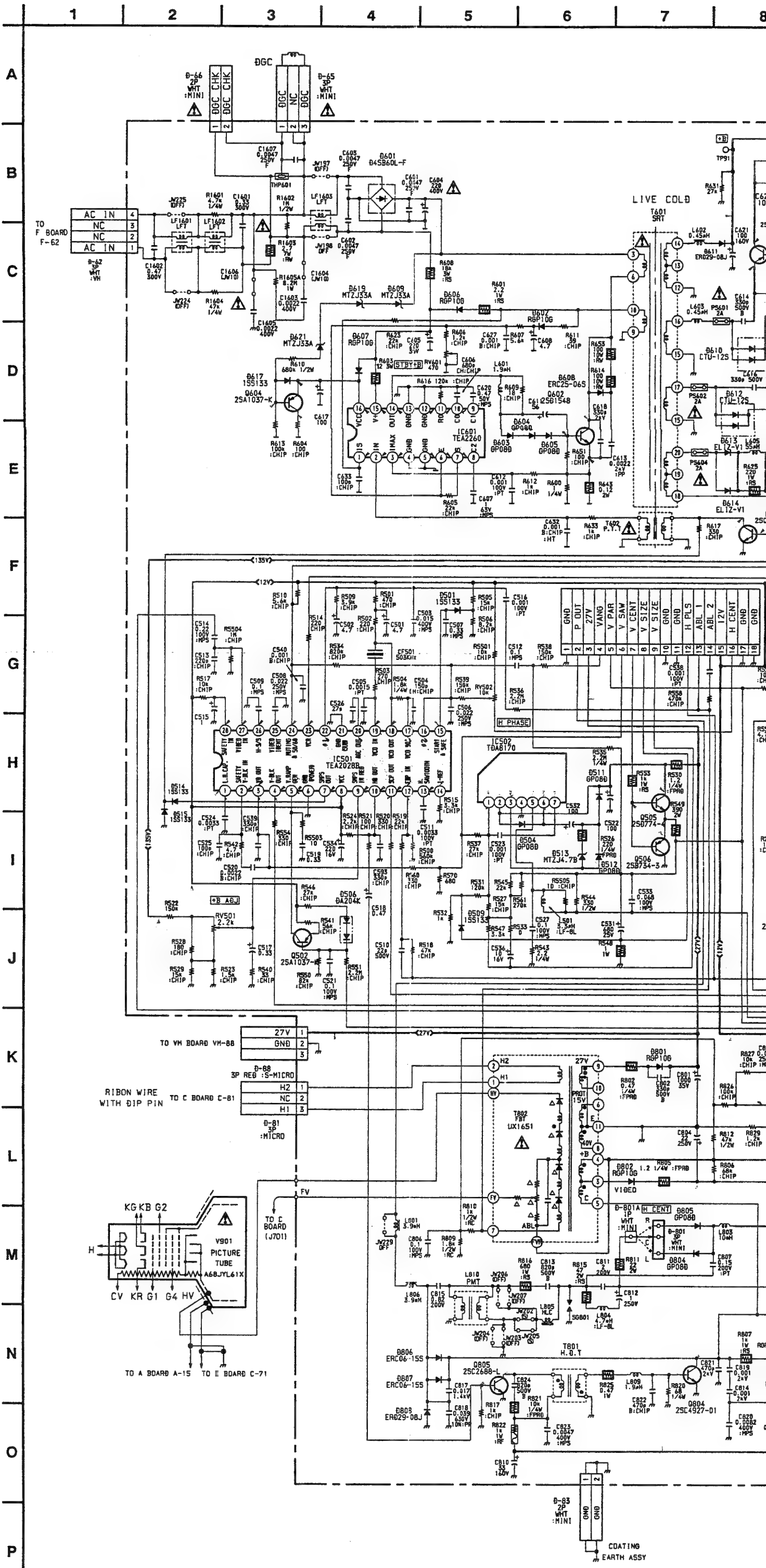
9-974-808-91

Sony Corporation
TV Group

English
94AE02468-1
Printed in Japan
© 1994. 1

— D Board —

IC001	TUNING CTL
IC002	ON SCREEN DISPLAY
IC003	AFT COMPARTOR
IC005	MY MEMORY
IC251	AUDIO OUT (L)
IC261	AUDIO OUT (R)
IC501	DEFLECTION PROCESSOR
IC502	VERTICAL OUT
IC601	PRIMARY SMRS CTL
IC604	+5V REGULATOR
IC608	+12V REGULATOR
Q001	50/60Hz SWITCH
Q002	BLK SWITCH
Q003	SYNC SEPARATOR
Q004	SYNC SEPARATOR
Q005	Y/C SWITCH
Q006	FRONT REAR SWITCH
Q007	MODE 2 SWITCH
Q008	MODE 1 SWITCH
Q009	MUTE SWITCH
Q010	RESET
Q251	AUDIO MUTE
Q261	AUDIO MUTE
Q271	VOLTAGE DETECT
Q502	CONSTANT CURRENT SOURCE
Q505	VERTICAL CENTER
Q506	VERTICAL CENTER
Q507	CANAL +BLK
Q508	VIDEO AMP
Q601	STBY SWITCH
Q602	REG OUT
Q603	STBY SWITCH
Q604	FAST ON/OFF
Q605	STBY SWITCH
Q606	STBY SWITCH
Q607	+12V REGULATOR
Q608	STBY SWITCH
Q609	STBY SWITCH
Q610	ABL AMP
Q611	HORIZONTAL OUT
Q612	HORIZONTAL DRIVER
D001	PROTECT
D002	PROTECT
D003	HUE CTL
D005	PROTECT
D006	VC VOLTAGE REGULATION
D007	PLOT RESET
D008	CLIPPING SYNC LEVEL
D010	PROTECT
D011	PROTECT
D012	PROTECT
D013	PROTECT
D271	VOLTAGE DETECT
D272	DECOUPLING MUTE AUDIO
D501	START
D504	V PULSE OUT
D508	CANAL +BLK LEVEL
D509	V LIN
D511	PROTECT
D512	PROTECT
D513	PROTECT
D514	PROTECT
D515	PROTECT
D601	AC RECT
D602	REF RECT
D603	SMPS DRIVE 1
D604	SMPS DRIVE 2
D605	SMPS DRIVE 3
D606	+12V REC
D607	REF RECT
D608	PULSE CLIPPER
D609	FAST ON/OFF
D610	+14V REC
D611	+135V REC
D612	+7V REC
D613	AF V RECT-1
D614	AF V RECT-2
D616	+12V REG
D617	PROTECT
D618	+12V REF
D619	FAST ON/OFF-2
D620	+12V REF
D621	FAST ON/OFF-3
D622	PROTECT
D623	DECOUPLING STBY
D624	DECOUPLING STBY
D630	+12V REC
D801	+27V REC
D802	+200V REC
D803	G2 RECT
D804	H CENTER-1
D805	H CENTER-2
D806	H DAMPER-1
D807	H DAMPER-2
D808	PIN DAMPER







The diagram shows a power amplifier system with the following components and connections:

- POWER AMPLIFIER:** A central triangular block.
- FLYBACK GENERATOR:** A rectangular block that receives input from the amplifier and provides feedback to the input.
- REFERENCE VOLTAGE:** A rectangular block that provides a reference input to the amplifier.
- THERMAL PROTECTION:** A rectangular block that receives input from the amplifier and provides feedback to the input.

Numbered terminals (1-7) are located around the diagram, indicating specific connection points for the system.

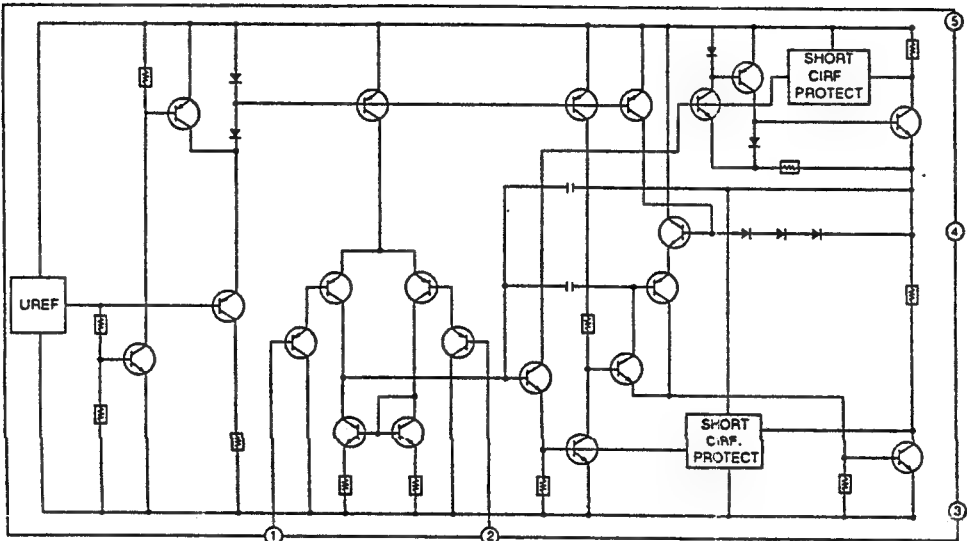
The block diagram illustrates the control system for a 100-Watt, 100-MHz RF power amplifier. The system is composed of several key functional blocks and their interconnections:

- TONSTART PROGRAM** (Block 9) initiates the process, sending a signal to the **VLF OSCILL TON MAX MOD** block (Block 10).
- VLF OSCILL TON MAX MOD** (Block 10) outputs to the **+0.1V COMPAR.** (Block 3) and the **STOP FLIP.FLOP.** (Block 12).
- +0.1V COMPAR.** (Block 3) outputs to the **STOP FLIP.FLOP.** (Block 12) and the **VCC COMPARATOR** (Block 16).
- VOLTAGE REF. INTERN. REGUL.** (Block 4) provides a reference signal to the **VCC COMPARATOR** (Block 16).
- VCC COMPARATOR** (Block 16) outputs to the **STOP FLIP.FLOP.** (Block 12) and the **+1 AMP** (Block 14).
- STOP FLIP.FLOP.** (Block 12) is a central control element with **STOP** and **START** inputs. It outputs to the **IC RECOPY** (Block 13), the **DELAY** block (Block 15), and the **START SHAPER** (Block 6).
- IC RECOPY** (Block 13) outputs to the **+1 AMP** (Block 14).
- DELAY** (Block 15) outputs to the **-1 AMP** (Block 11).
- START SHAPER** (Block 6) outputs to the **SYNC. SWITCH** (Block 8) and the **RC OSCILLATOR** (Block 7).
- SYNC. SWITCH** (Block 8) outputs to the **RC OSCILLATOR** (Block 7).
- RC OSCILLATOR** (Block 7) outputs to the **IC1 IC LIMIT** (Block 1) and the **IC2** (Block 2).
- IC1 IC LIMIT** (Block 1) and **IC2** (Block 2) output to the **START SHAPER** (Block 6).
- +1 AMP** (Block 14) and **-1 AMP** (Block 11) provide the final output signals.

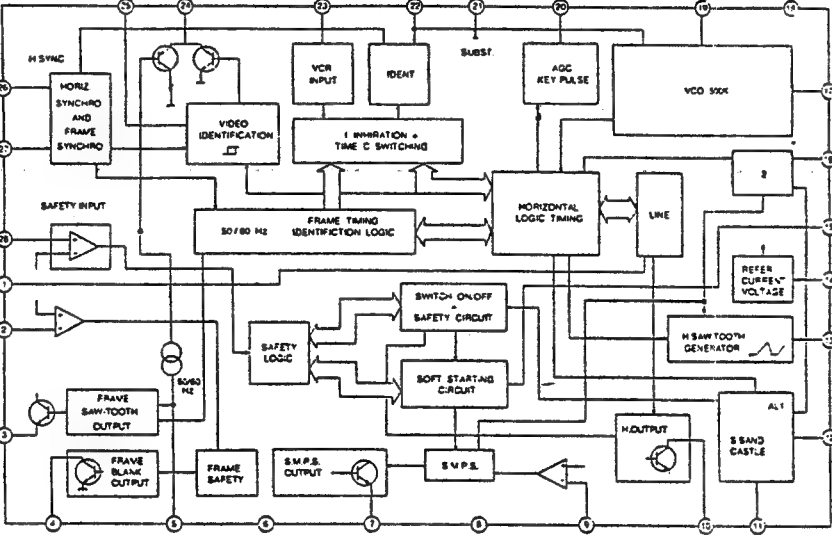
The diagram is labeled with numbers 1 through 16, corresponding to the blocks and signal lines. The overall system is designed to control the power amplifier's operation, ensuring proper timing and signal levels for the 100-Watt, 100-MHz RF output.

Suppl.

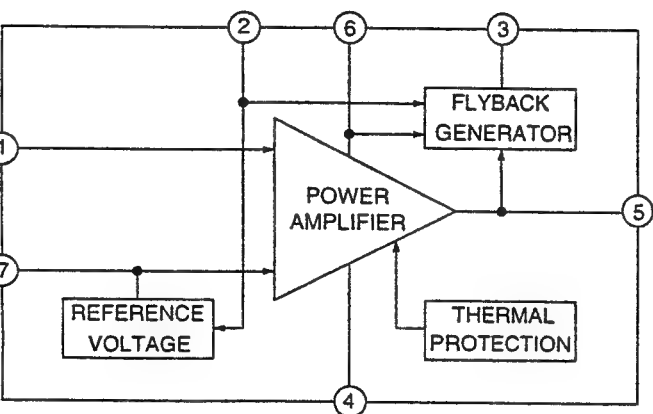
D Board IC251/261 TDA2050



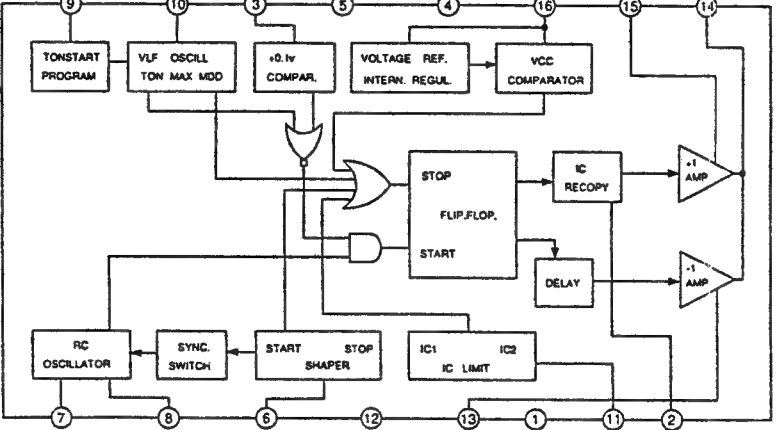
D Board IC501 TEA2028B



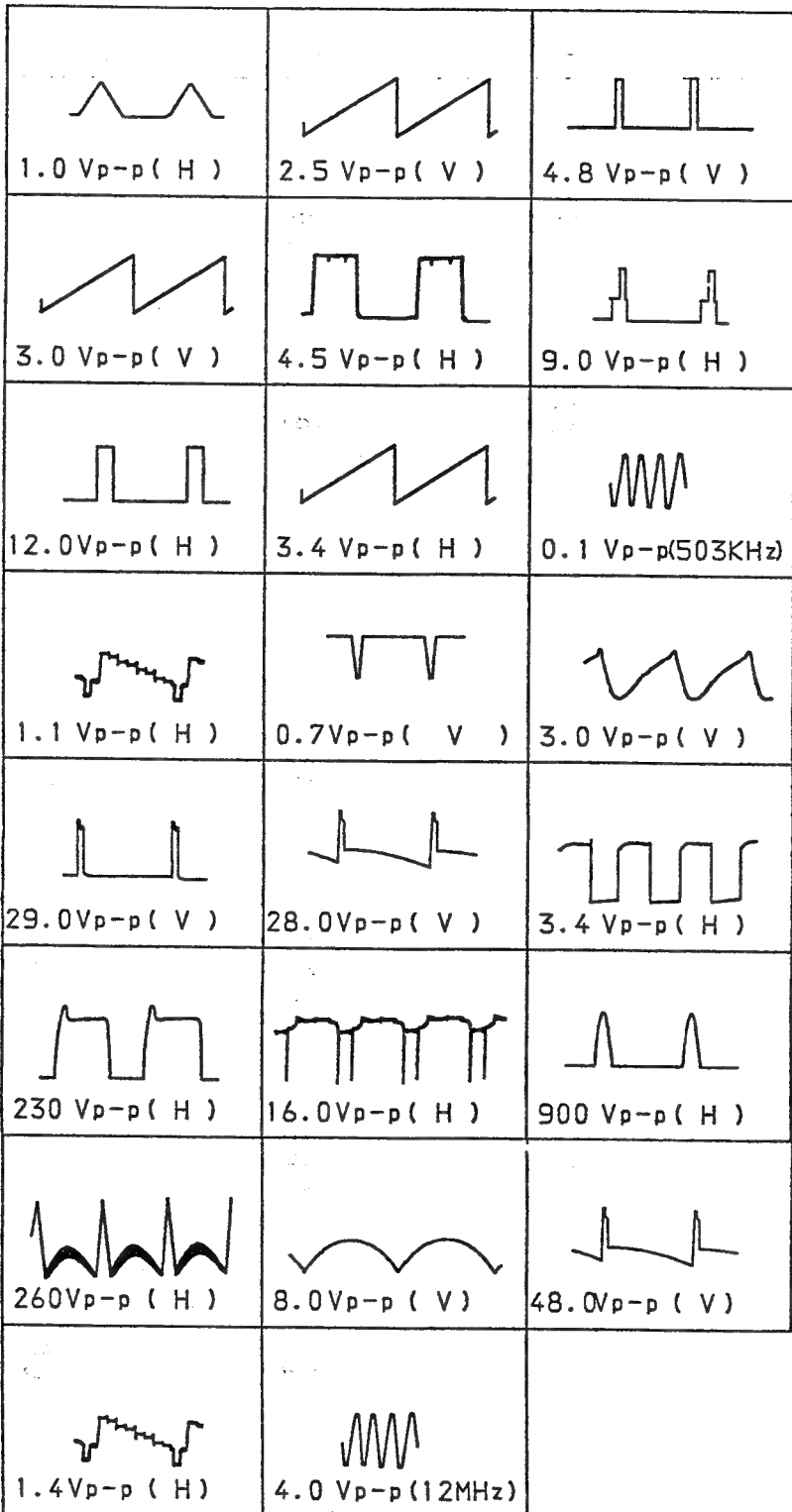
D Board IC502 TDA8170



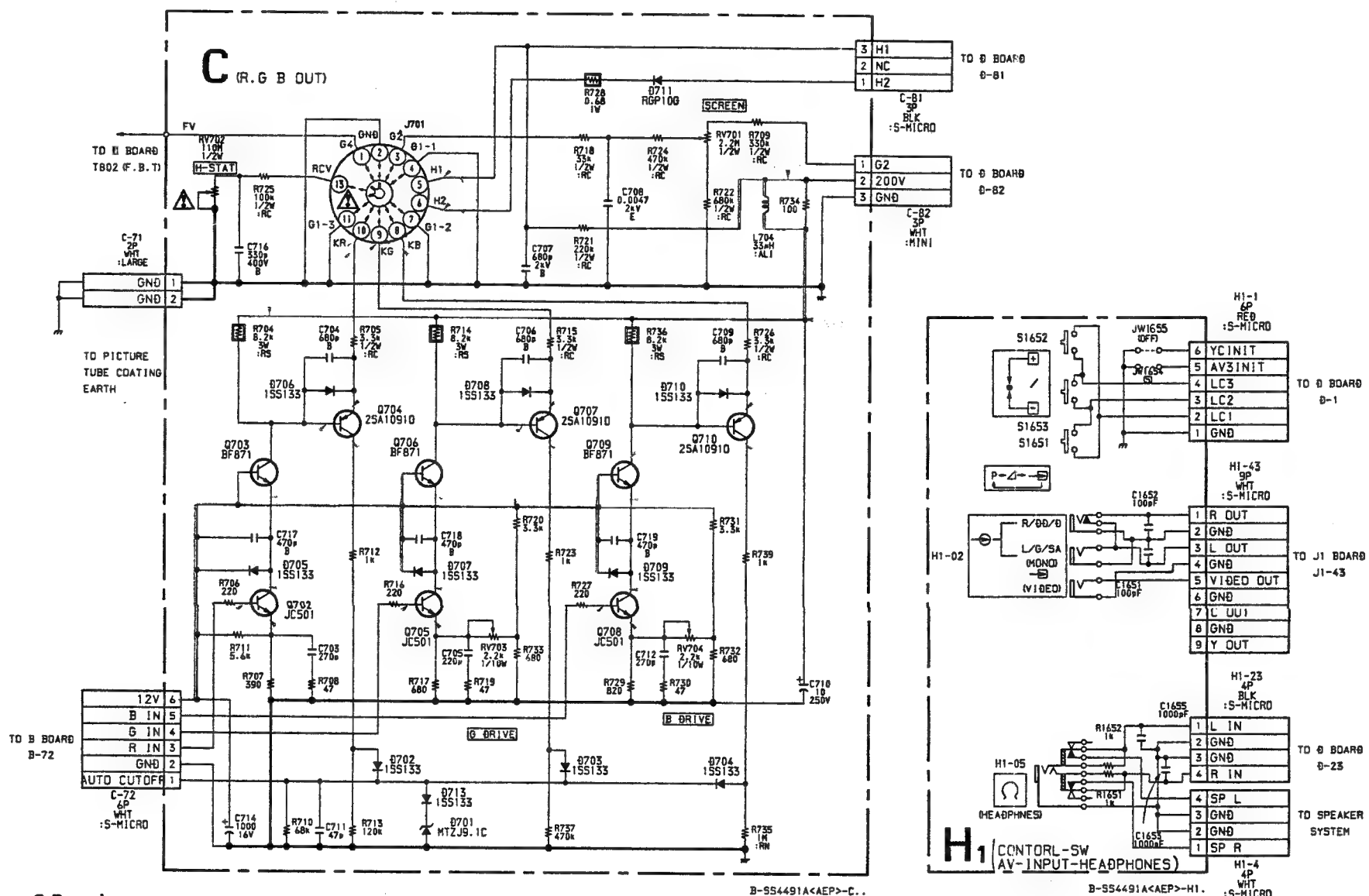
D Board IC601 TEA2260



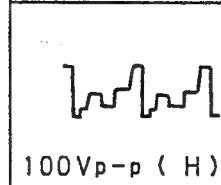
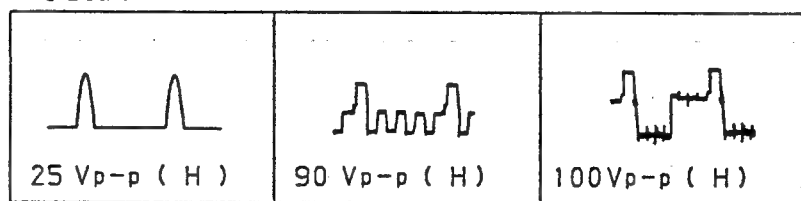
— D Board —



A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P

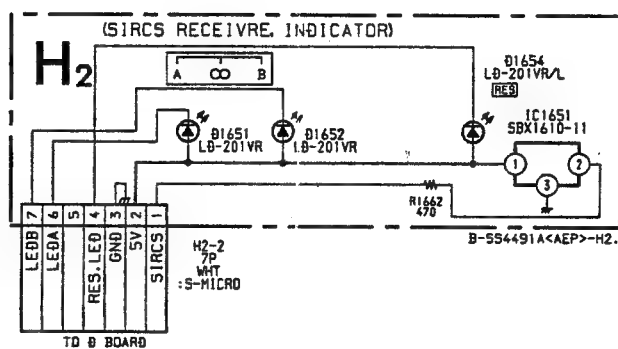
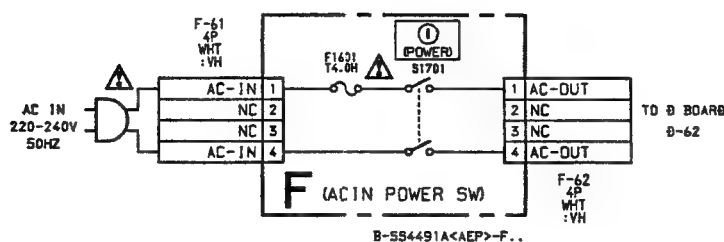


— C Board —

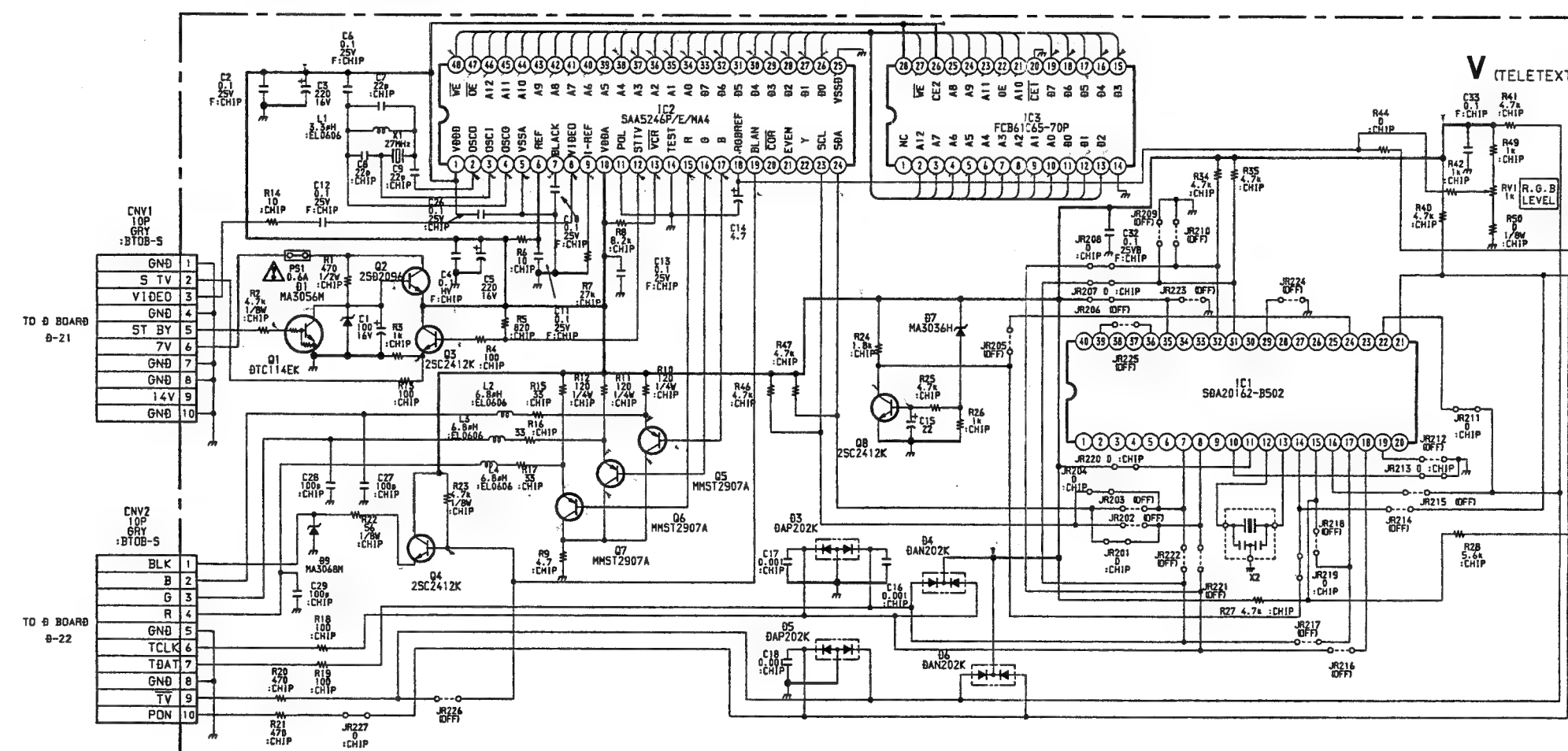
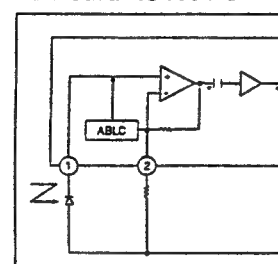


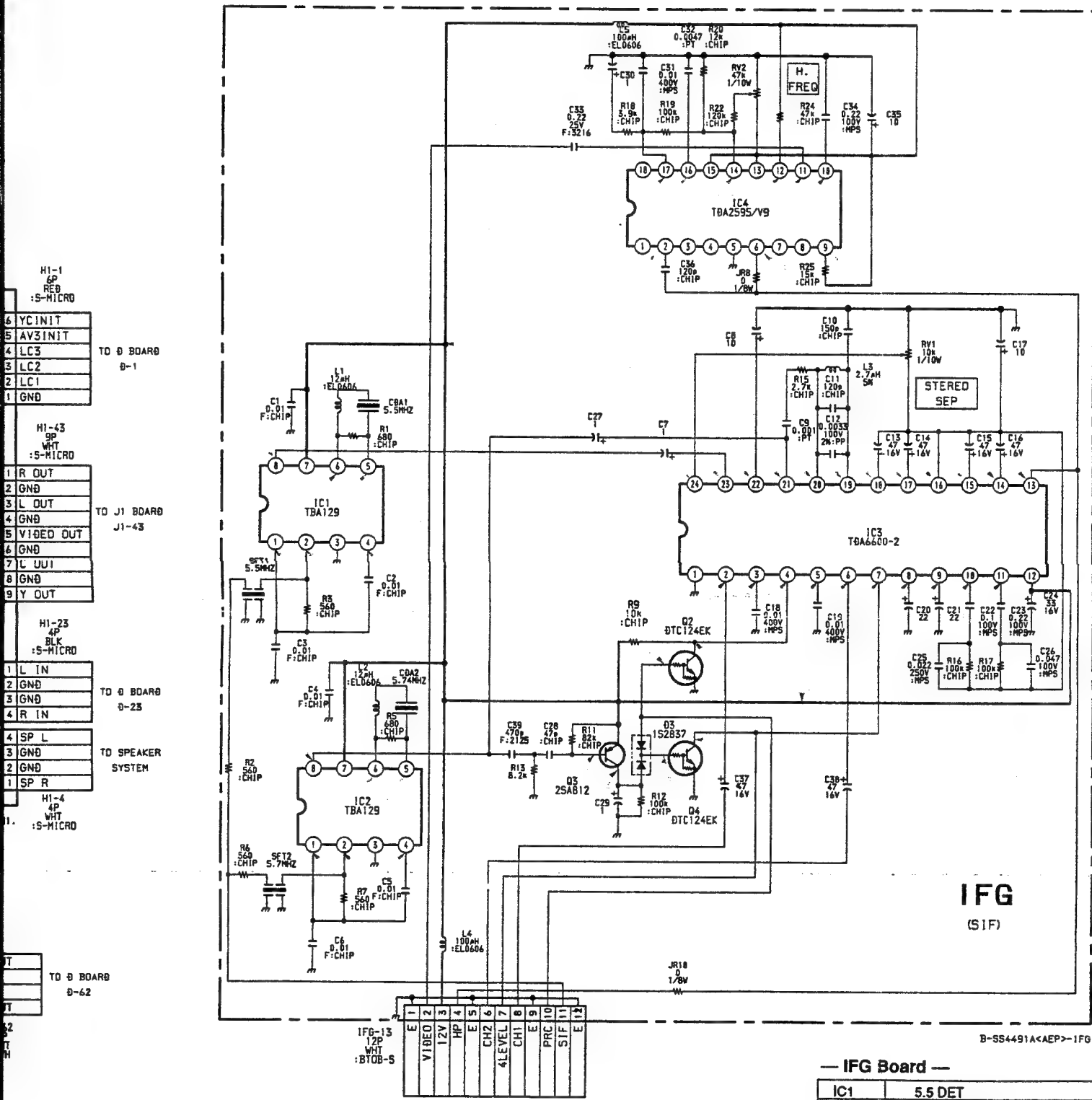
— C Board —

Q702	R DRIVE
Q703	R OUT
Q704	ACO MEASURING
Q705	G DRIVE
Q706	G OUT
Q707	ACO MEASURING
Q708	B DRIVE
Q709	B OUT
Q710	ACO MEASURING
D701	PROTECT
D702	PROTECT
D703	PROTECT
D704	PROTECT
D705	PROTECT
D706	PROTECT
D707	PROTECT
D708	PROTECT
D709	PROTECT
D710	PROTECT
D711	HEATER VOLTAGE REC
D713	PROTECT

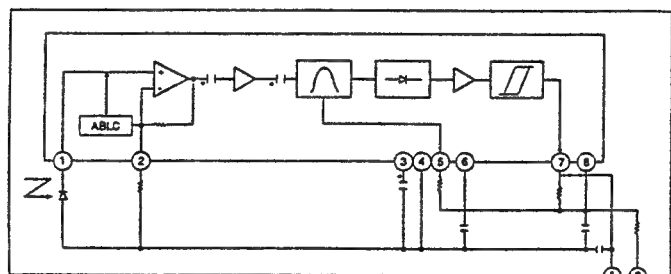


H₂ Board IC1651 SBX



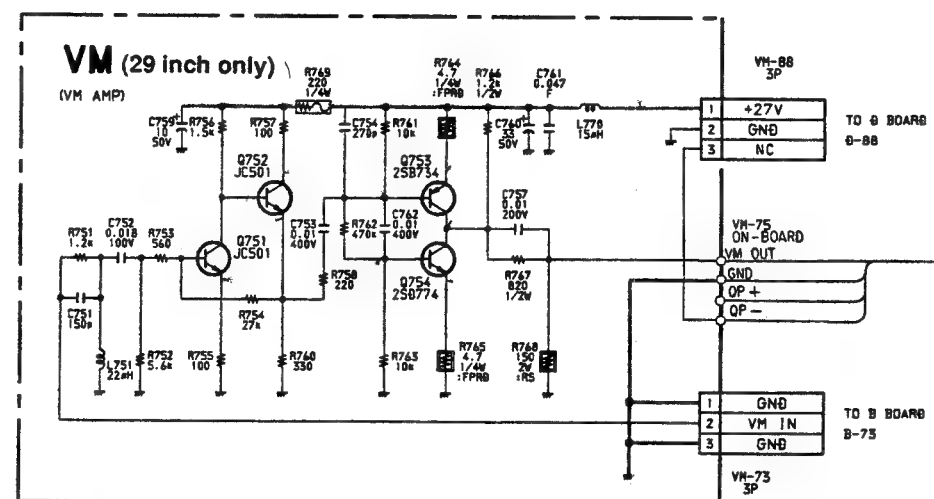
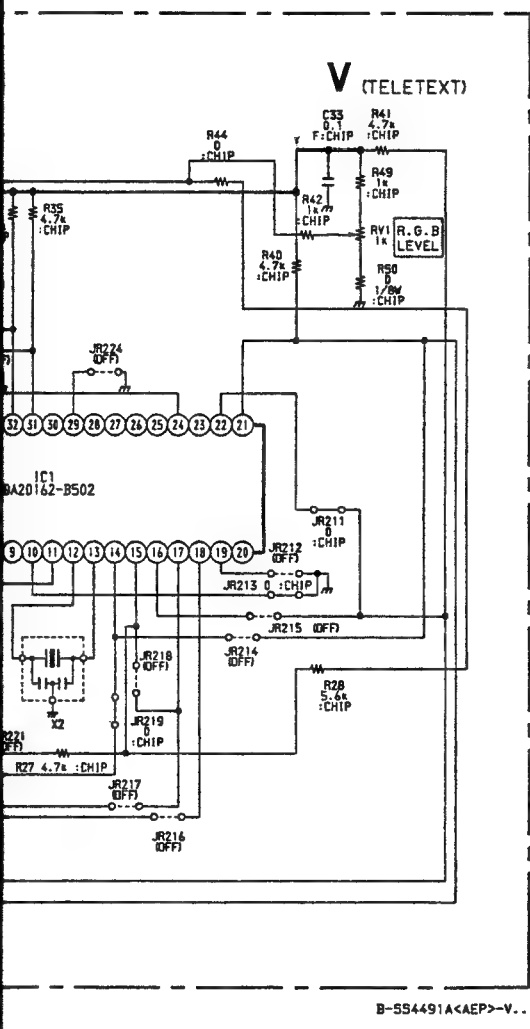


H2 Board IC1651 SBX1610-11



— H2 Board —

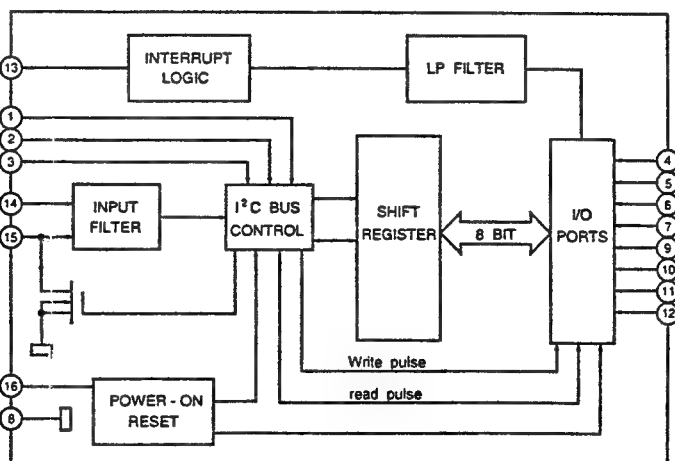
IC1651	INFRARED RECEIVER
D1651	AUDIO CHANNEL A INDICATOR
D1652	AUDIO CHANNEL B INDICATOR
D1654	RESET



— V Board —

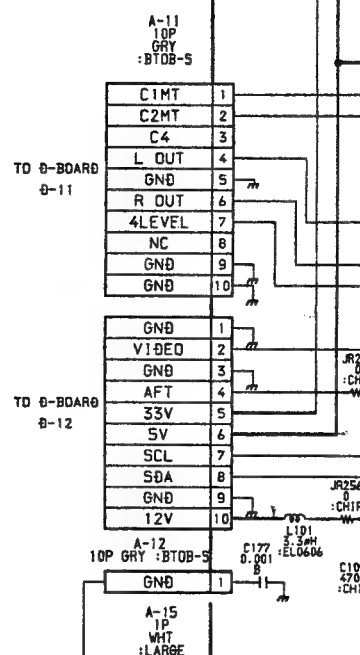
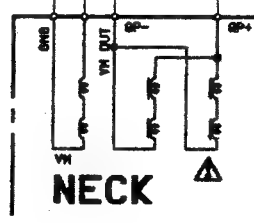
IC1	MICRO-CONT
IC2	IVT
IC3	STATIC-RAM
Q1	STAND-BY
Q2	5V REG
Q3	SYNC BUFFER
Q4	BLK OUT
Q5	B OUT
Q6	G OUT
Q7	R OUT
Q8	RESET
D1	5V REG
D3	PROTECT
D4	PROTECT
D5	PROTECT
D6	PROTECT
D7	PROTECT
D9	PROTECT

A Board IC103 PCF8574



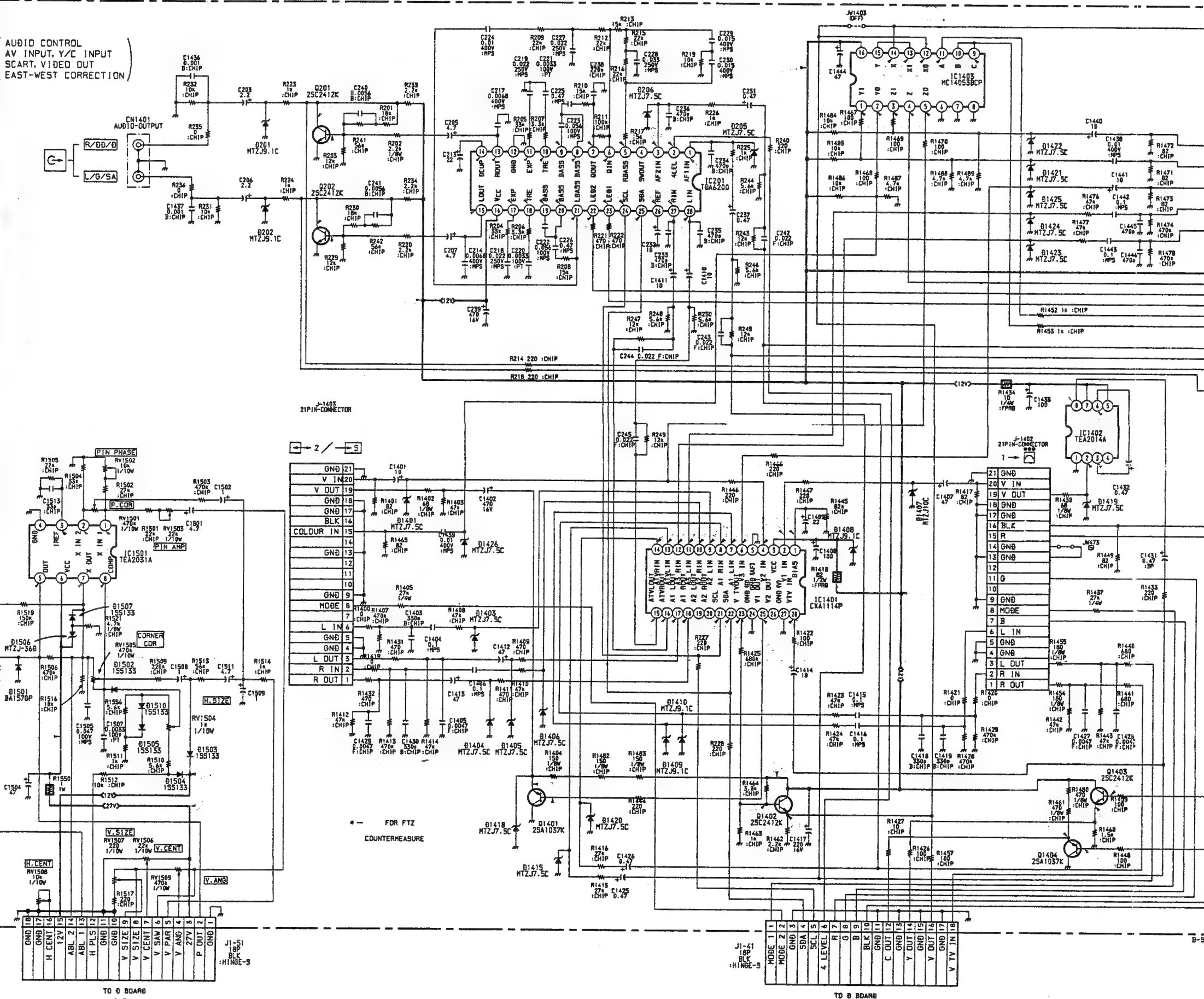
— VM Board — (29 inch only)

Q751	REF-AMP
Q752	REF-AMP
Q753	PUSH-PULL OUT
Q754	PUSH-PULL OUT

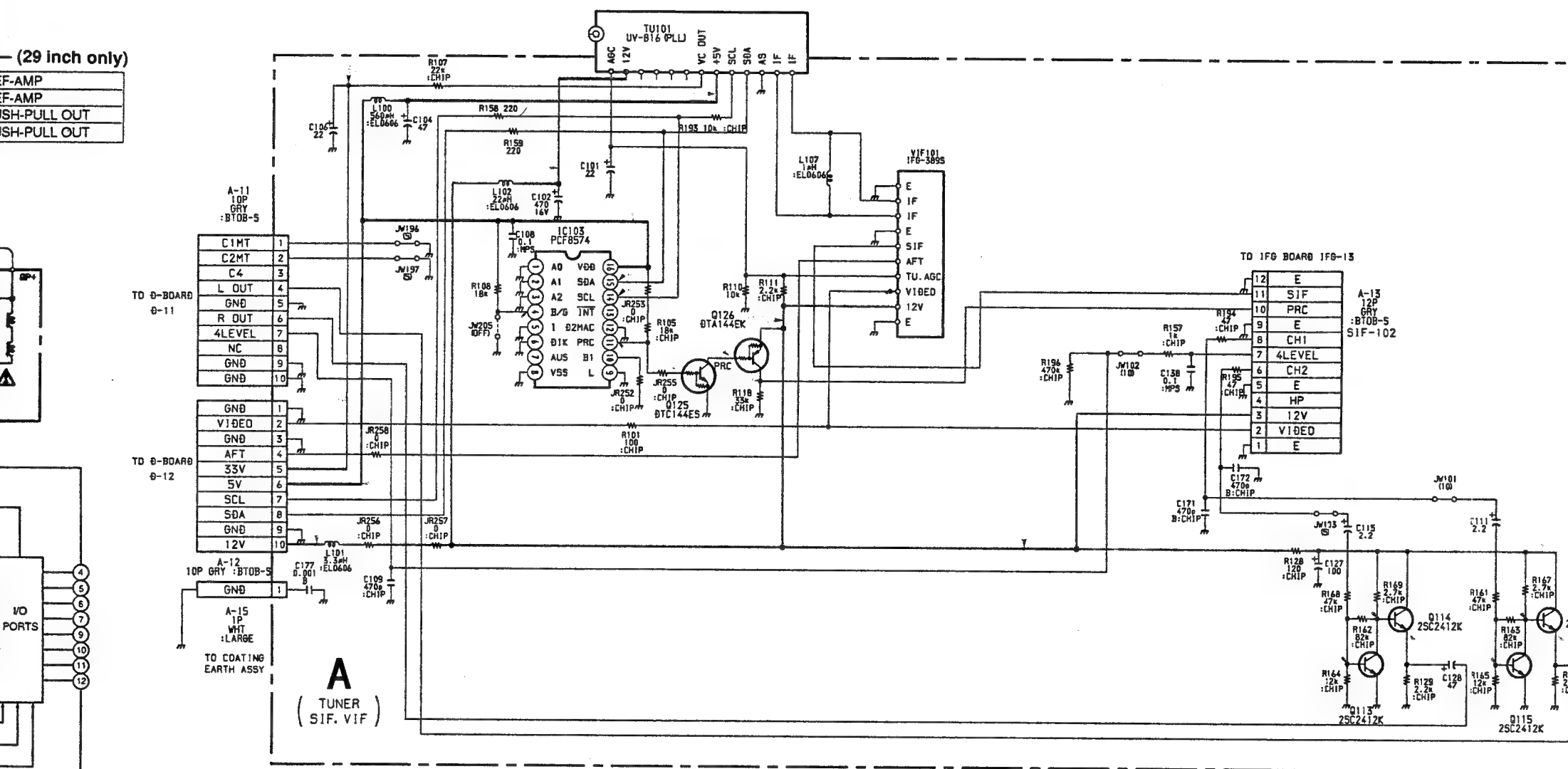


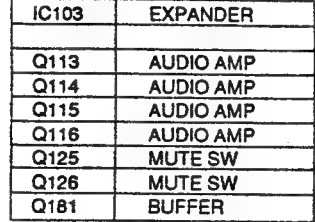
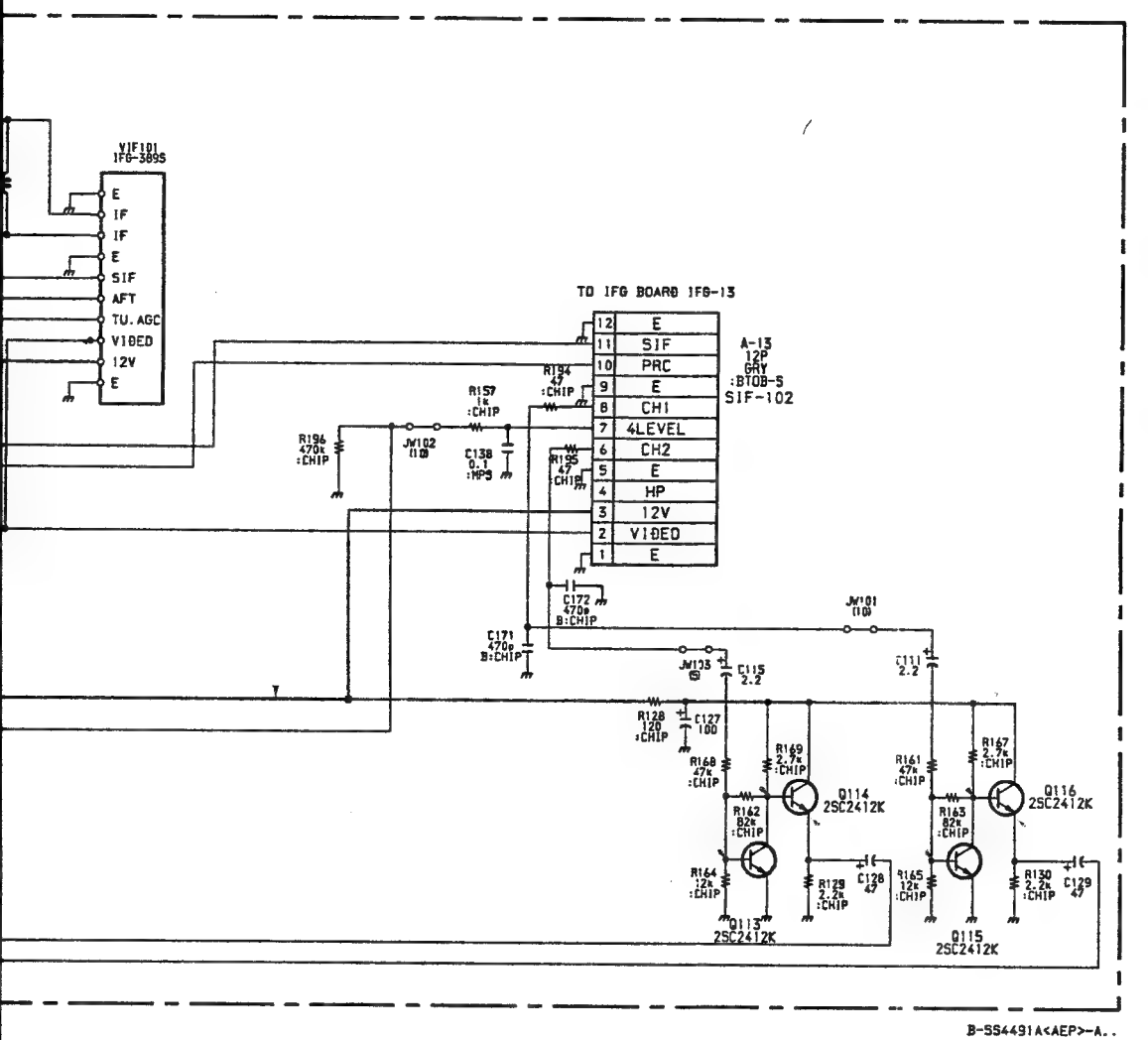
A (TUNER SIF, VIF)

(AUDIO CONTROL
AV INPUT, Y/C INPUT
SCART, VIDEO OUT
EAST-WEST CORRECTION)



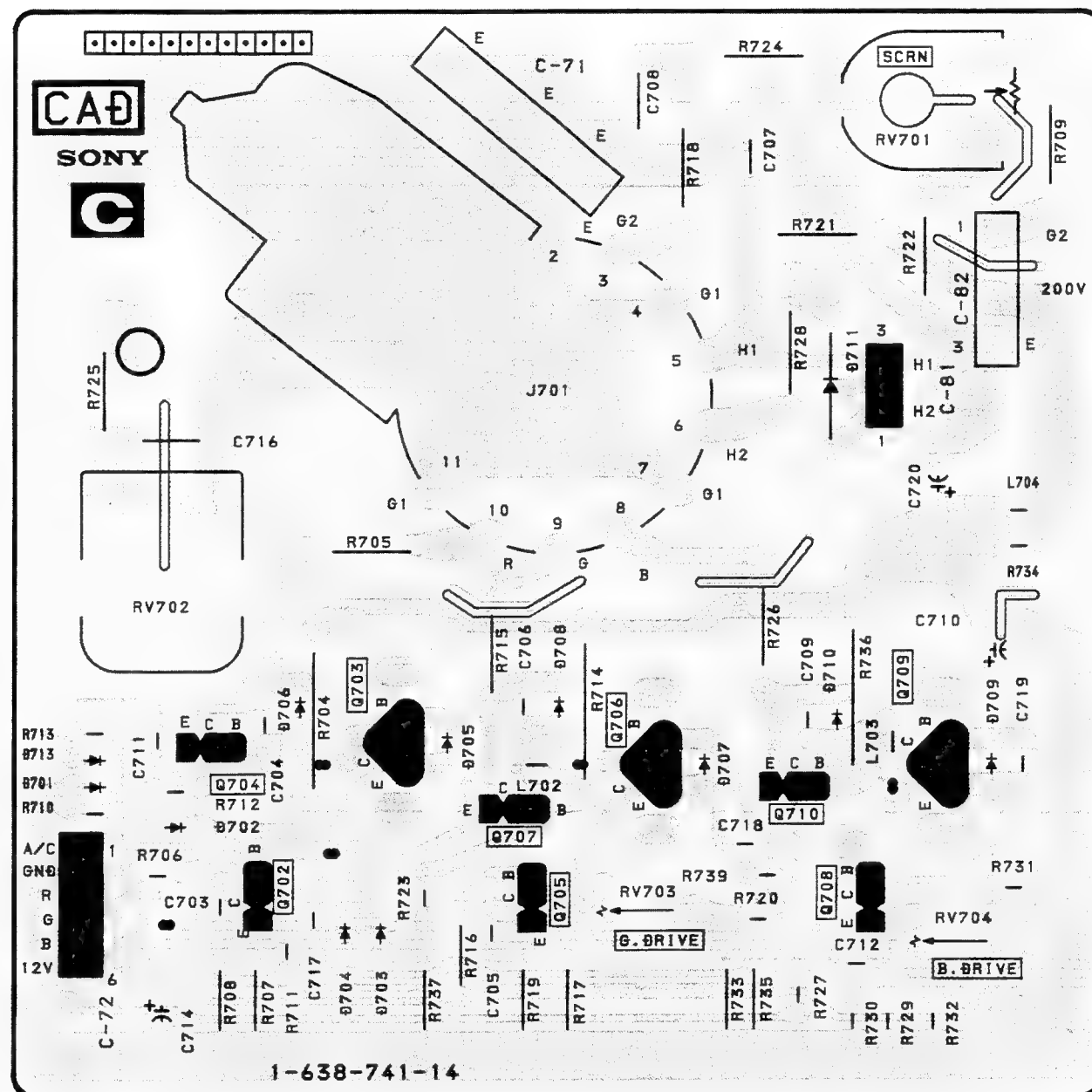
(29 inch only)
REF-AMP
REF-AMP
PUSH-PULL OUT
PUSH-PULL OUT



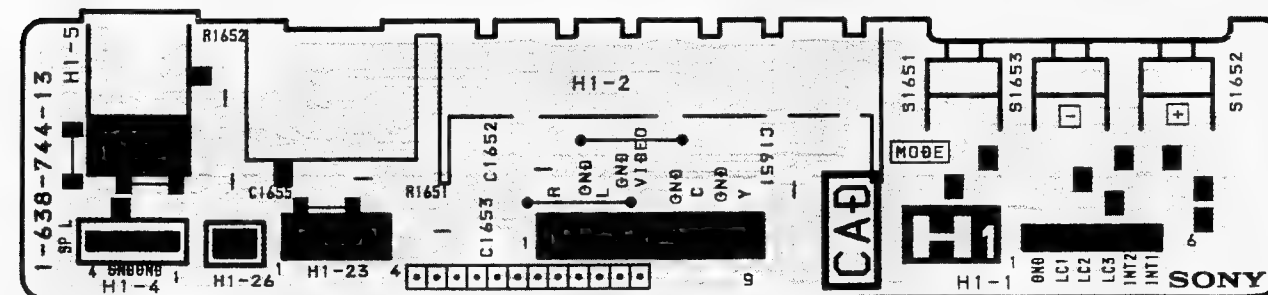


C [R.G.B. OUT] **H1** [CONTROL SW, AV INPUT,
HEADPHONE]

— C Board —

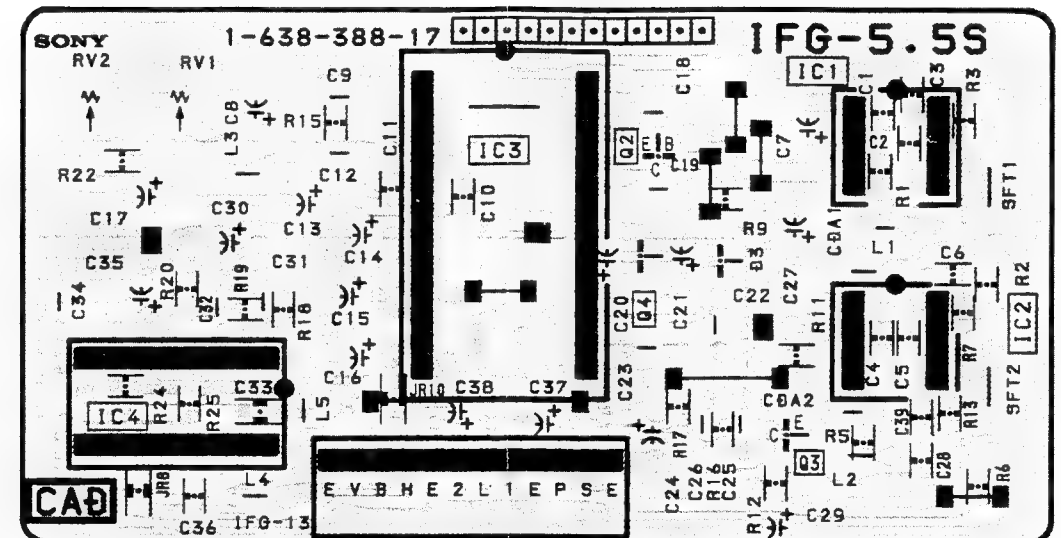


— H1 Board —

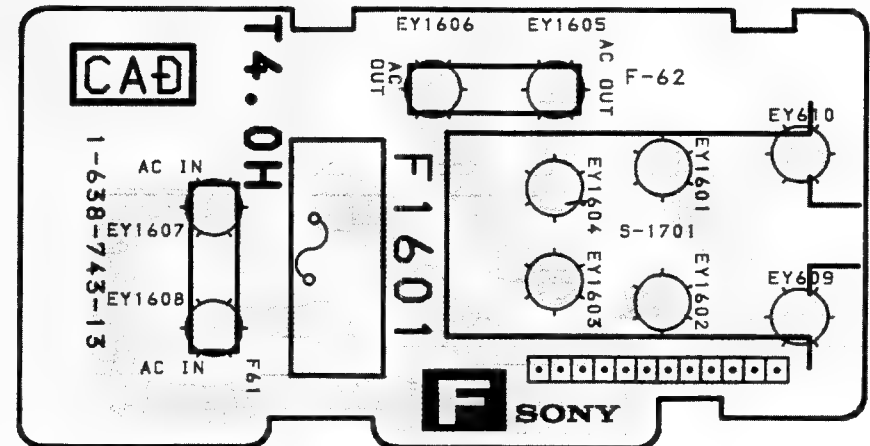


IFG [SIF] **F** [AC IN POWER SW] **V** [TELETEXT]

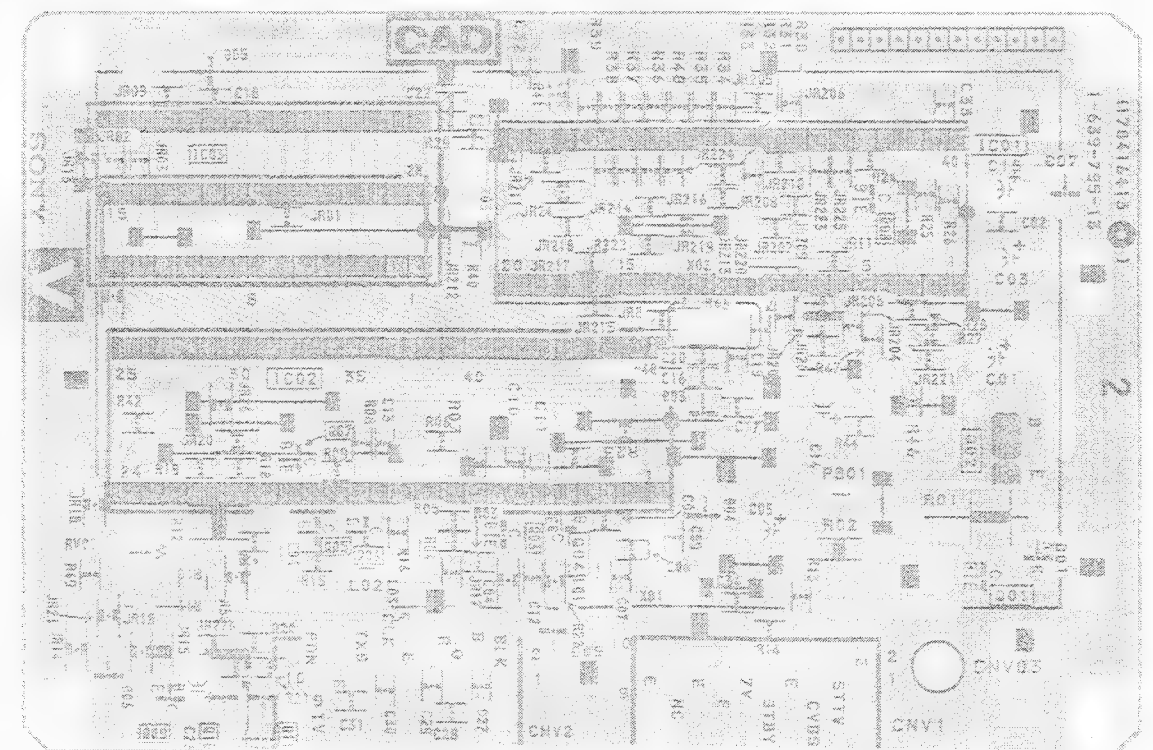
— IFG Board —



— F Board —



— V Board —



KV-X2141D/X2541D/X2941D
RM-816

[TUNER, SIF, VIF]

[VM AMP]

[SIRCS RECEIVER, INDICATOR]

(1-702-381-12)
1-634-193-12

VM E +Q -Q

1 2 3 4

VM-75 R768

R752 L751 C752 R751 C751 R755 B C E R754 R753 Q751 R760 C759 R757 Q752 R756 R769 R765 C761 R767 Q754 C757 R766 Q753 B C E R764 R761 R762 C754 C760 L705 L770

Q751 Q752 Q753 Q754

VM-88

VM-73 VM

SONY

The diagram illustrates the internal electronics of a Sony H2 video camera. Key components include:

- Integrated Circuits (ICs):** Labeled IC1651 through IC1655, distributed across the top and bottom sections.
- Central Processor/Controller:** A large black rectangular component labeled H2-2, positioned centrally.
- Resistors:** R1661 and R1662 are shown near the central H2-2 component.
- Capacitors:** C1661 and C1662 are located at the bottom right of the diagram.
- Diodes:** D1661 and D1662 are indicated by lightning bolt symbols near the bottom center.
- Other Labels:** "SONY H2" is printed on the left side, and "CAD" is visible on the far right edge.

AUDIO CONTROL, AV INPUT
Y/C INPUT, SCART VIDEO OUT
EAST-WEST CORRECTION

IC	
IC201	E-5
IC1401	D-1
IC1402	C-4
IC1403	B-5
IC1501	G-3
TRANSISTOR	
Q201	D-5
Q202	D-5
Q1401	B-3
Q1402	A-2
Q1403	A-2
Q1404	B-2
DIODE	
D201	C-5
D202	D-4
D205	D-5
D206	D-5
D1401	C-3
D1403	E-4
D1404	E-4
D1405	E-4
D1406	F-4
D1407	B-2
D1408	C-2
D1409	D-2
D1410	D-2
D1415	F-2
D1418	B-3
D1419	C-2
D1420	F-2
D1421	A-5
D1422	A-5
D1423	B-2
D1424	B-2
D1425	B-2
D1426	B-4
D1501	G-2
D1502	G-5
D1503	G-2
D1504	F-1
D1505	G-4
D1506	G-3
D1507	G-3
D1510	G-5
VARIABLE RESISTOR	
RV1501	G-4
RV1502	G-5
RV1503	G-4
RV1504	G-5
RV1505	G-5
RV1506	G-5
RV1507	G-3
RV1508	G-5
RV1509	G-4

— B Board —

IC301	VIDEO PROCESSOR
IC302	D/A CONVERTER
IC303	Y/C COMP SWITCH
IC331	COLOR PROCESSOR
IC332	IH-DELAY
IC1301	SHARPNESS CONTROL (29 inch)
Q301	Y AMP (21,25 inch)
Q303	STBY SWITCH
Q305	ANTI PRIORITY SCART
Q306	VIDEO BUFFER (HUE)
Q311	ON SCREEN DISPLAY SWITCH
Q312	CANRL +BLK
Q313	ON SCREEN DISPLAY
Q316	FAS PICTURE MUTE SWITCH
Q330	VIDEO AMP
Q331	NTSC SWITCH
Q332	VIDEO BUFFER
Q333	Y AMP
Q334	PAL/NTSC SWITCH
Q335	SECAM SWITCH
Q381	MUTE
Q1301	Y BUFFER
Q1305	Y OUT (29 inch)
Q1306	Y OUT
D301	ACO AT STBY
D302	ACO AT STBY
D303	ACO AT STBY
D304	DECOUPLING BLK
D305	PROTECT
D307	PROTECT
D309	PROTECT
D310	PROTECT
D311	PROTECT
D312	PROTECT
D313	PROTECT
D314	PROTECT
D315	PROTECT
D316	PROTECT
D317	PROTECT
D318	PROTECT
D319	PROTECT
D320	PROTECT
D331	SECAM SWITCH
D332	SECAM SWITCH
D333	SECAM SWITCH
D350	PROTECT

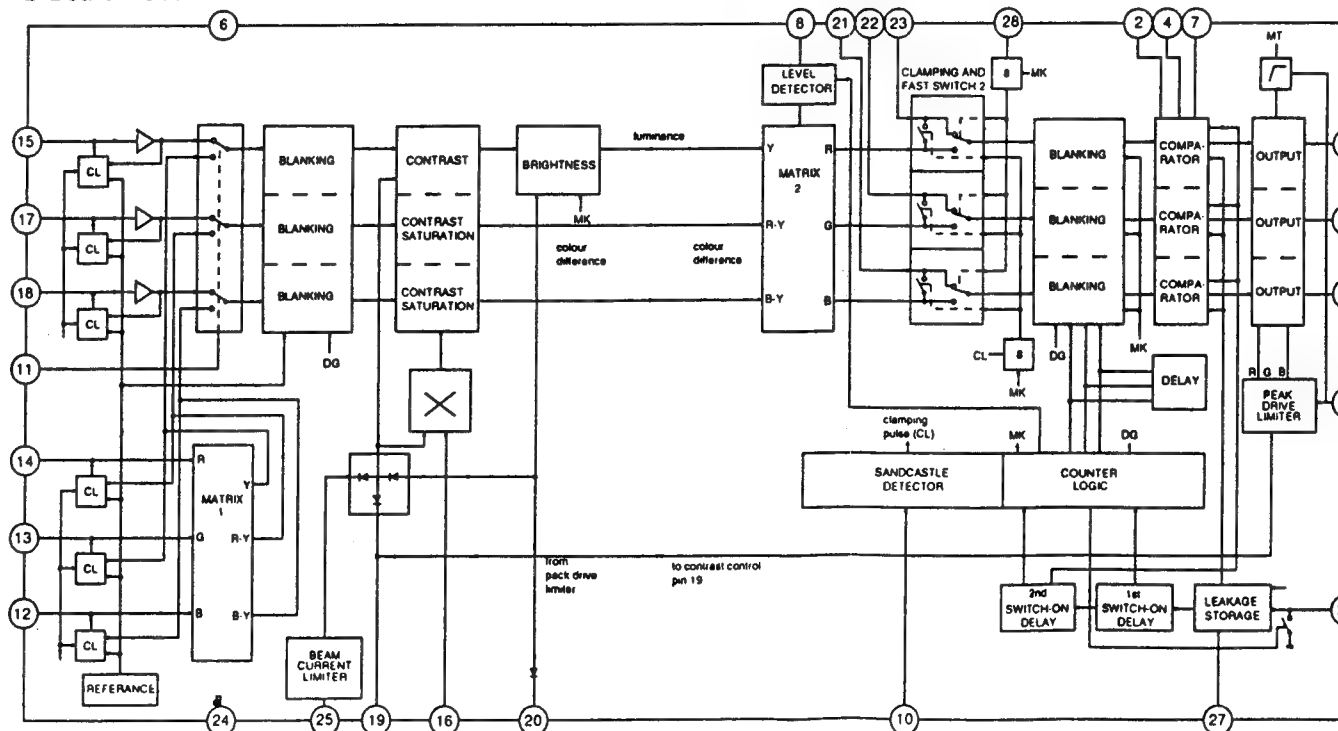
— B Board —

		PAL	SECAM	NTSC3.58	NTSC4.43
IC301	⑧	0.1	0.1	5.8	0.1
	②⑥	6.7	6.8	5.1	6.5
IC331	①⑨	3.1	3.6	3.1	2.8
	②①	3.0	3.5	2.9	2.7
	②②	5.6	5.6	7.1	7.2
	②③	7.5	7.0	5.6	5.6
	②⑤	0.1	0.1	0.1	5.8
	②⑥	0.1	0.1	5.8	0.1
	②⑦	0.1	5.8	0.1	0.1
	②⑧	5.9	0.1	0.1	0.1
Q331	(B)	0.1	0.1	5.8	0.1
	(C)	0.3	0.4	0	0.8
Q333	(B)	4.4	4.4	4.4	4.4
Q334	(B)	4.9	0.1	4.8	4.8
Q335	(B)	0.1	4.8	0.1	0.1

— B Board —

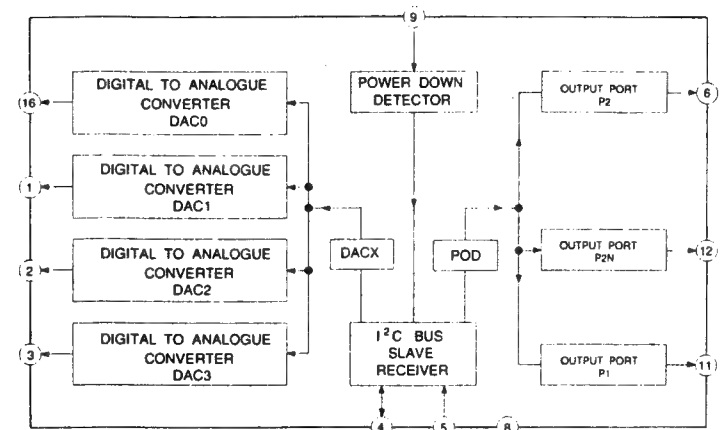
① PAL, SECAM 4.8 Vp-p (H)	① NTSC 3.58/4.43 5.0 Vp-p (H)	② PAL, SECAM 4.8 Vp-p (H)	⑨ SECAM 1.5 Vp-p (H)	⑨ NTSC 3.58/4.43 0.6 Vp-p (H)	⑩ SECAM 0.75 Vp-p (H)
② NTSC 3.58/4.43 4.8 Vp-p (H)	③ PAL, SECAM 4.8 Vp-p (H)	③ NTSC 3.58/4.43 4.8 Vp-p (H)	⑪ SECAM 0.2 Vp-p (H)	⑫ PAL 0.2 Vp-p (H)	⑫ SECAM 0.12 Vp-p (H)
④ 9.5 Vp-p (H)	⑤ PAL 0.4 Vp-p (H)	⑤ SECAM 0.36 Vp-p (H)	⑫ NTSC 3.58/4.43 0.17 Vp-p (H)	⑬ PAL 0.4 Vp-p (H)	⑬ SECAM 0.12 Vp-p (H)
⑤ NTSC 3.58/4.43 0.46 Vp-p (H)	⑥ PAL, SECAM 0.9 Vp-p (H)	⑥ NTSC 3.58/4.43 0.7 Vp-p (H)	⑬ NTSC 3.58/4.43 0.3 Vp-p (H)	⑭ PAL 1.25 Vp-p (H)	⑭ SECAM 1.25 Vp-p (H)
⑦ PAL, SECAM 1.1 Vp-p (H)	⑦ NTSC 3.58/4.43 1.25 Vp-p (H)	⑧ PAL 0.5 Vp-p (H)	⑭ NTSC 3.58/4.43 1.1 Vp-p (H)	⑮ PAL 1.25 Vp-p (H)	⑮ SECAM 1.25 Vp-p (H)
⑧ SECAM 1.1 Vp-p (H)	⑧ NTSC 3.58/4.43 0.4 Vp-p (H)	⑨ PAL 0.6 Vp-p (H)	⑮ NTSC 3.58/4.43 1.2 Vp-p (H)	⑯ PAL, NTSC 0.5 Vp-p (H)	⑯ NTSC 3.58/4.43 0.5 Vp-p (H)

B Board IC301 TDA4580V7

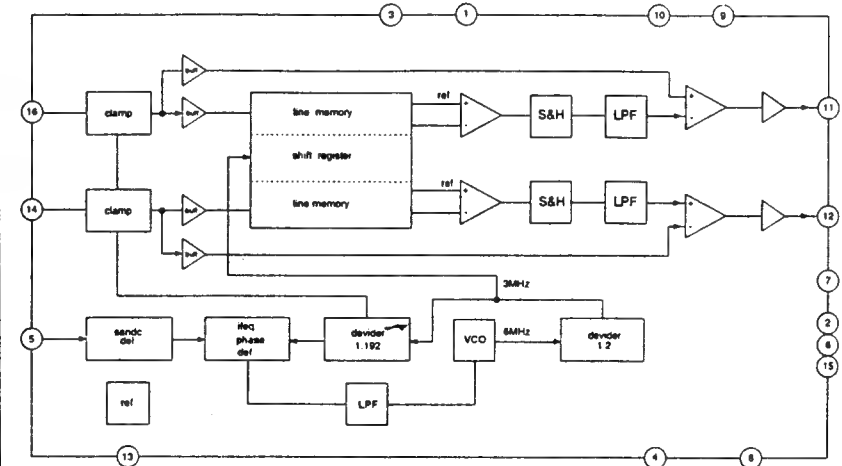


Schematic diagram

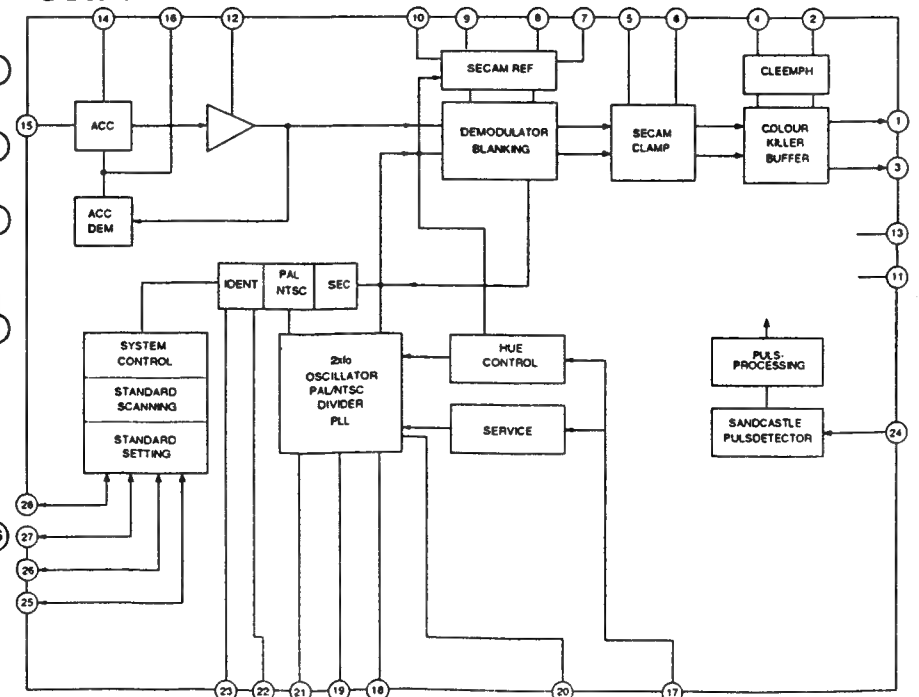
B Board IC302 TDA8442-N3



B Board IC332 TDA4660V2



B Board IC331 TDA4650



KV-X2141D/X2541D/X2941D
RM-816

KV-X2141D/X2541D/X2941D
RM-816

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

A

B

C

D

E

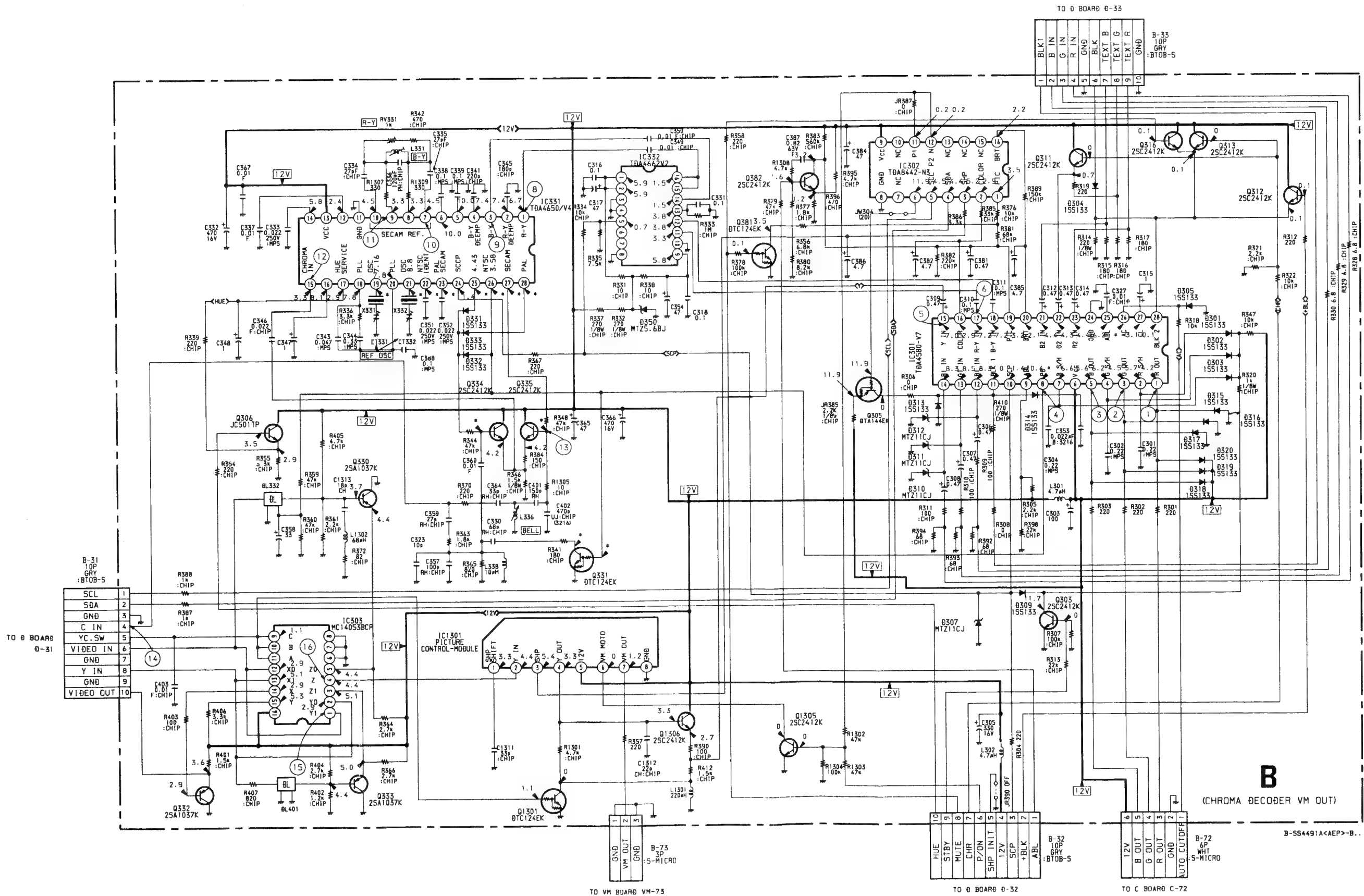
F

G

H

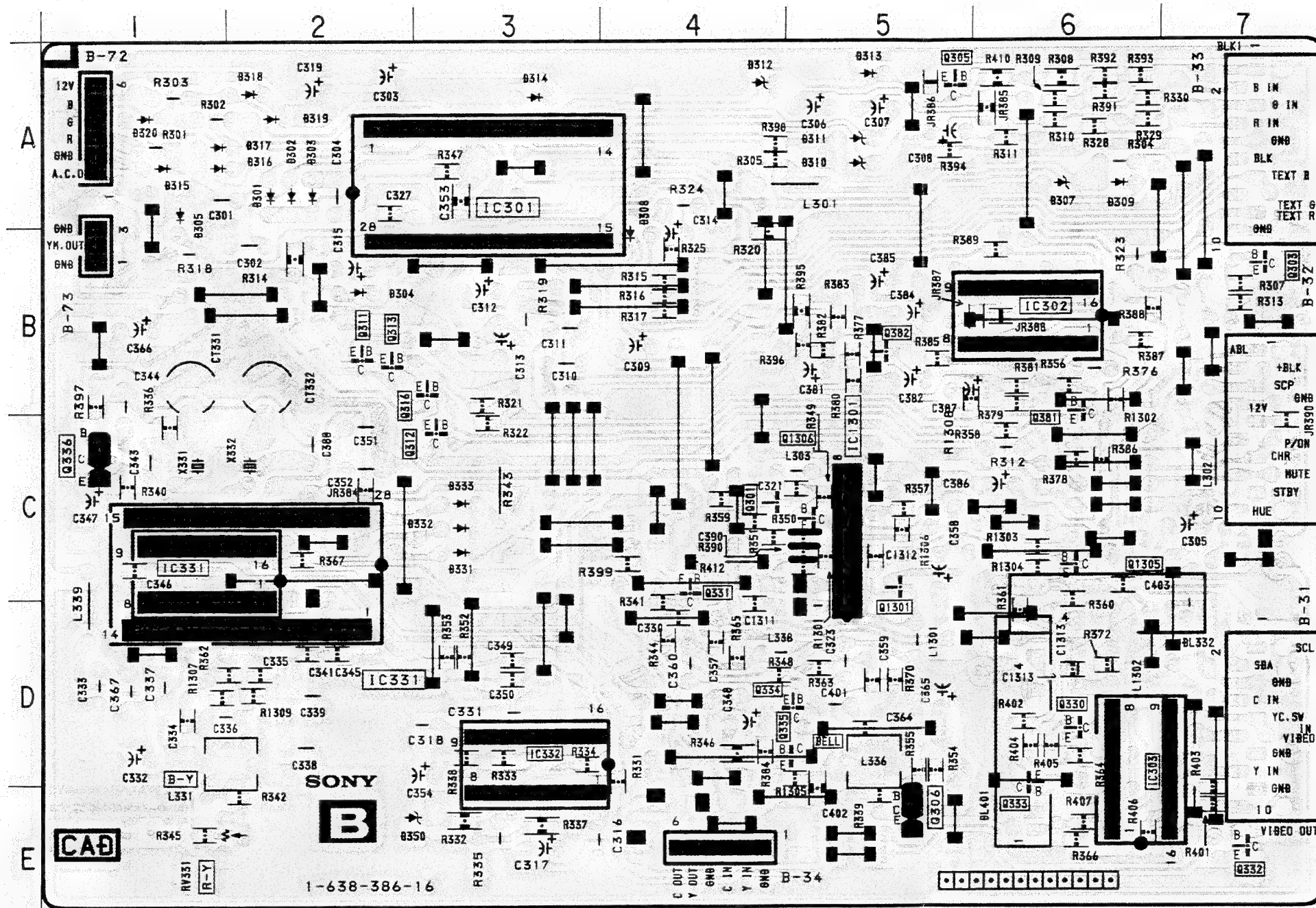
I

J



B [CHROMA DECODER]

— B Board —



— B Board —

IC	
IC301	A-3
IC302	B-6
IC303	D-6
IC331	C-1
IC332	D-3
IC1301	C-5

TRANSISTOR

Q303	B-7
Q305	A-5
Q306	E-5
Q311	B-2
Q312	C-2
Q313	B-2
Q316	B-2
Q330	D-6
Q331	C-4
Q332	E-7
Q333	E-6
Q334	D-4
Q335	D-4
Q381	C-6
Q382	B-5
Q1301	D-5
Q1305	C-6
Q1306	C-5

DIODE

D301	A-2
D302	A-2
D303	A-2
D304	B-2
D305	A-1
D307	A-6
D309	A-6
D310	A-5
D311	A-5
D312	A-4
D313	A-5
D314	A-3
D315	A-1
D316	A-2
D317	A-2
D318	A-2
D319	A-2
D320	A-1
D331	C-3
D332	C-3
D333	C-3
D350	E-2

**VARIABLE
RESISTOR**


RV331 E-1

SECTION 2 EXPLODED VIEWS

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

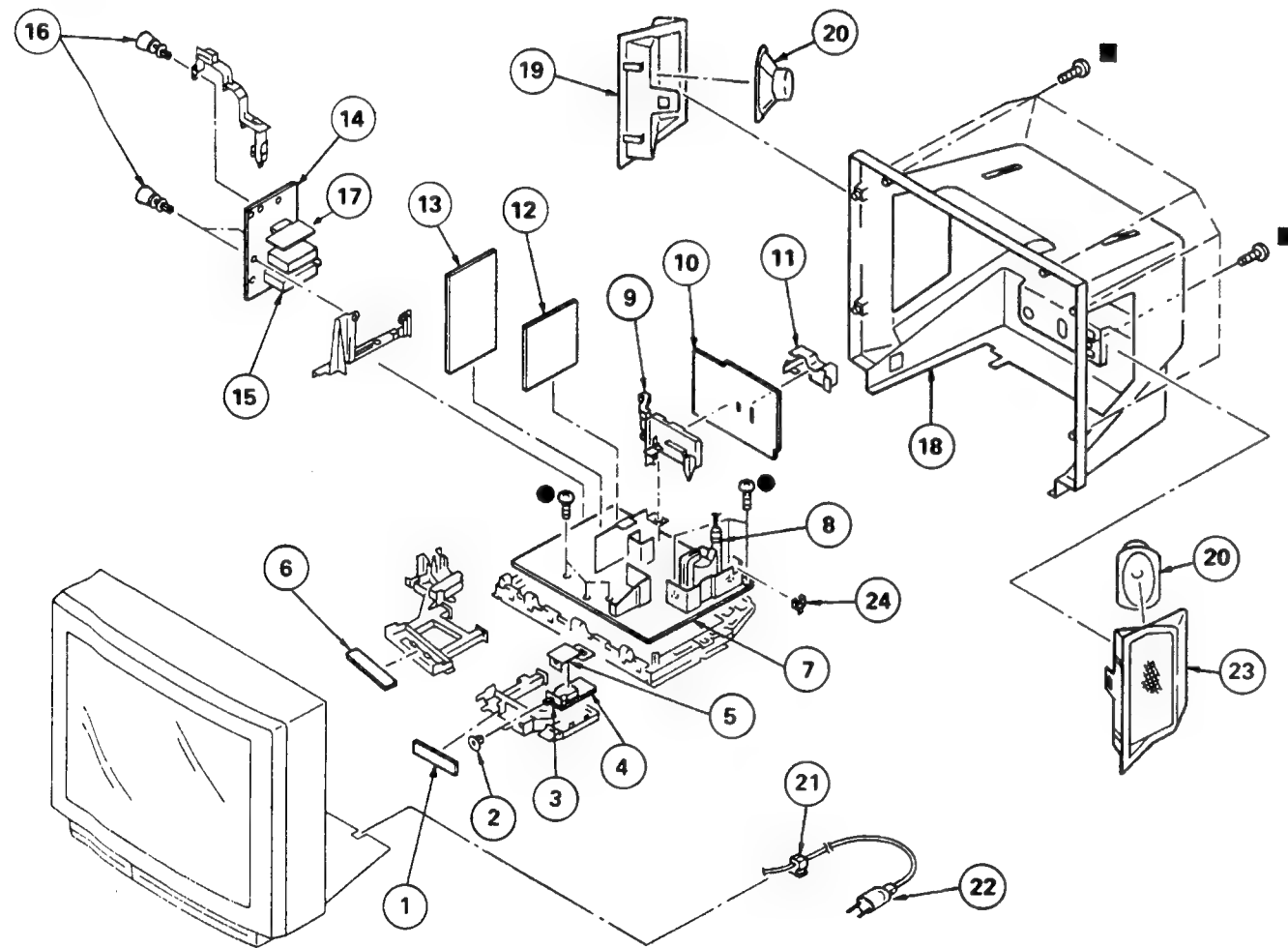
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

2-1. CHASSIS

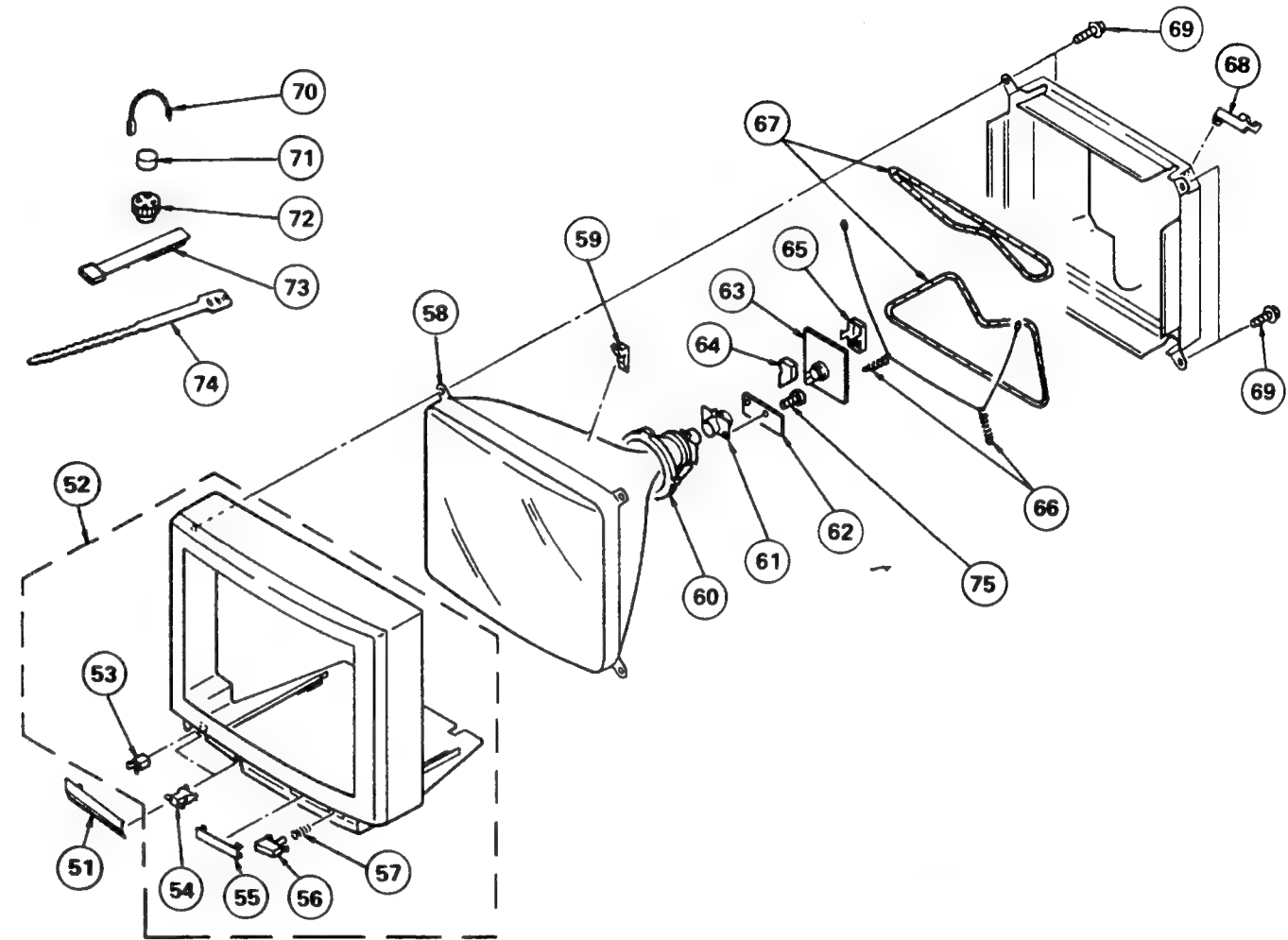
● : BVTP3x12 7-685-648-79


■ : BVTP4x16 7-658-663-79



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
1	*1-638-745-11	H2 BOARD		12	*A-1645-022-A	V BOARD, COMPLETE	
2	4-386-611-11	COVER, SWITCH		13	*A-1621-051-A	B BOARD, COMPLETE	
3	1-571-433-12	SWITCH, PUSH (AC POWER)		14	A-1632-054-A	A BOARD, COMPLETE	
4	*A-1624-008-A	F BOARD, COMPLETE		15	1-465-611-11	TUNER, ET	
5	4-200-274-11	COVER, POWER SWITCH		16	4-386-618-01	RIVET, T TYPE	
6	*1-638-744-11	H1 BOARD		17	A-1654-005-A	IFG BOARD, COMPLETE	
7	*A-1642-119-A	D BOARD, COMPLETE		18	4-398-910-21	COVER, REAR	
8	1-439-416-41	TRANSFORMER ASSY. FLYBACK (NX-1604)		19	X-4398-901-2	BOARD ASSY (L), BAFFLE	
9	*4-386-624-01	BRACKET, J		20	1-544-525-11	SPEAKER	
10	*A-1651-063-A	J BOARD, COMPLETE		21	4-389-201-11	HOLDER, AC CORD	
11	4-200-014-11	BRACKET, TERMINAL		22	1-690-296-11	CORD, POWER (WITH NOISE FILTER) 2.5A/250V	
				23	*X-4398-901-2	BOARD ASSY (R), BAFFLE	
				24	*3-646-071-00	HOLDER, WIRE	

2-2. PICTURE TUBE



The components identified by shading and mark  are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
51	4-398-911-31	DOOR, CONTROL		64	*4-379-167-01	COVER (MAIN), CV	
52	X-4398-902-7	CABINET ASSY (WITH BEZEL ASSY)	53-57	65	*4-379-160-01	COVER (REAR LID), CV	
53	4-392-036-01	CATCHER, PUSH		66	4-369-318-21	SPRING, TENSION	
54	4-202-555-01	SHAFT, DOOR		67	1-426-398-11	COIL, DEMAGNETIZATION	
55	4-200-148-01	WINDOW, ORNAMENTAL		68	*4-387-284-01	HOLDER, LEAD	
56	4-200-150-11	BUTTON, POWER		69	4-036-188-01	SCREW (M), PT	
57	4-329-112-41	SPRING		70	4-308-870-00	CLIP, LEAD WIRE	
58	1-8-733-831-05	PICTURE TUBE (A68JYL61X)		71	1-452-032-00	MAGNET, DISK: 10MM ϕ	
59	3-704-495-01	SPACER, DY		72	1-452-094-00	MAGNET, ROTATABLE DISK: 15MM ϕ	
60	1-451-313-21	DEFLECTION YOKE (Y29FXA)		73	X-4306-312-0	PERMALLOY ASSY, CONVERGENCE	
61	1-452-509-42	NECK ASSY, PICTURE TUBE (NA-308)		74	X-4387-214-1	PERMALLOY ASSY, CORRECTION	
62	*1-634-193-11	VM BOARD (KV-X2941D)		75	3-701-007-00	BAND, BINDING	
63	*A-1638-043-A	C BOARD, COMPLETE			4-039-356-01	SCREW (3X12), (+) BV TAPPING	

SECTION 3

ELECTRICAL PARTS LIST

B

NOTE:

The components identified by shading and mark **Δ** are critical for safety.
Replace only with part number specified.

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

When indicating parts by reference number, please include the board name.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms
- F: nonflammable

CAPACITORS

MF: μ F, PF: μ PF

COILS

MMH: mH, UH: μ H

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
	*A-1621-051-A	B BOARD, COMPLETE *****		C360	1-101-004-00	CERAMIC 0.01MF	50V
				C364	1-163-105-00	CERAMIC CHIP 33PF	5% 50V
				C365	1-124-910-11	ELECT 47MF	20% 50V
				C366	1-126-103-11	ELECT 470MF	20% 16V
		<CAPACITOR>		C367	1-101-004-00	CERAMIC 0.01MF	50V
C301	1-136-169-00	FILM 0.22MF	5% 50V	C381	1-124-902-00	ELECT 0.47MF	20% 50V
C302	1-136-169-00	FILM 0.22MF	5% 50V	C382	1-124-927-11	ELECT 4.7MF	20% 50V
C303	1-124-122-11	ELECT 100MF	20% 50V	C384	1-124-910-11	ELECT 47MF	20% 50V
C304	1-136-169-00	FILM 0.22MF	5% 50V	C385	1-124-927-11	ELECT 4.7MF	20% 50V
C305	1-124-119-00	ELECT 330MF	20% 16V	C386	1-124-927-11	ELECT 4.7MF	20% 50V
C306	1-124-902-00	ELECT 0.47MF	20% 50V	C387	1-130-833-00	MYLAR 0.82MF	10% 63V
C307	1-124-902-00	ELECT 0.47MF	20% 50V	C388	1-136-165-00	FILM 0.1MF	5% 50V
C308	1-124-902-00	ELECT 0.47MF	20% 50V	C401	1-101-361-00	CERAMIC 150PF	5% 50V
C309	1-124-902-00	ELECT 0.47MF	20% 50V	C402	1-163-197-00	CERAMIC CHIP 470PF	5% 50V
C310	1-136-165-00	FILM 0.1MF	5% 50V	C403	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C311	1-136-165-00	FILM 0.1MF	5% 50V	C1311	1-163-105-00	CERAMIC CHIP 33PF	5% 50V
C312	1-124-902-00	ELECT 0.47MF	20% 50V	C1312	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
C313	1-124-902-00	ELECT 0.47MF	20% 50V	C1313	1-102-953-00	CERAMIC 18PF	5% 50V
C314	1-124-902-00	ELECT 0.47MF	20% 50V			<CONNECTOR>	
C315	1-124-903-11	ELECT 1MF	20% 50V	B31	*1-565-393-11	CONNECTOR, BOARD TO BOARD	
C316	1-136-165-00	FILM 0.1MF	5% 50V	B32	*1-565-393-11	CONNECTOR, BOARD TO BOARD	
C317	1-124-910-11	ELECT 47MF	20% 50V	B33	*1-565-393-11	CONNECTOR, BOARD TO BOARD	
C318	1-136-165-00	FILM 0.1MF	5% 50V	B72	*1-568-881-51	PIN, CONNECTOR 6P	
C323	1-102-947-00	CERAMIC 10PF	0.5PF 50V	B73	*1-568-878-51	PIN, CONNECTOR 3P	
C327	1-163-031-11	CERAMIC CHIP 0.01MF	50V			<TRIMMER>	
C330	1-163-113-00	CERAMIC CHIP 68PF	5% 50V	CT331	1-141-418-11	CAP. ADJ	
C331	1-136-165-00	FILM 0.1MF	5% 50V	CT332	1-141-418-11	CAP. ADJ	
C332	1-126-103-11	ELECT 470MF	20% 16V			<DIODE>	
C333	1-106-375-12	MYLAR 0.022MF	10% 250V	D301	8-719-901-33	DIODE 1SS133	
C334	1-163-237-11	CERAMIC CHIP 27PF	5% 50V	D302	8-719-901-33	DIODE 1SS133	
C335	1-163-237-11	CERAMIC CHIP 27PF	5% 50V	D303	8-719-901-33	DIODE 1SS133	
C336	1-102-816-00	CERAMIC 120PF	5% 50V	D304	8-719-901-33	DIODE 1SS133	
C337	1-101-004-00	CERAMIC 0.01MF	50V	D305	8-719-901-33	DIODE 1SS133	
C338	1-136-165-00	FILM 0.1MF	5% 50V	D307	8-719-110-23	DIODE RD11ESB3	
C339	1-136-165-00	FILM 0.1MF	5% 50V	D309	8-719-901-33	DIODE 1SS133	
C341	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	D310	8-719-110-23	DIODE RD11ESB3	
C343	1-106-383-00	MYLAR 0.047MF	10% 100V	D311	8-719-110-23	DIODE RD11ESB3	
C344	1-136-171-00	FILM 0.33MF	5% 50V	D312	8-719-110-23	DIODE RD11ESB3	
C345	1-163-123-00	CERAMIC CHIP 180PF	5% 50V	D313	8-719-901-33	DIODE 1SS133	
C346	1-163-033-00	CERAMIC CHIP 0.022MF	50V	D314	8-719-901-33	DIODE 1SS133	
C347	1-124-903-11	ELECT 1MF	20% 50V	D315	8-719-901-33	DIODE 1SS133	
C348	1-124-903-11	ELECT 1MF	20% 50V	D316	8-719-901-33	DIODE 1SS133	
C349	1-163-031-11	CERAMIC CHIP 0.01MF	50V	D317	8-719-901-33	DIODE 1SS133	
C350	1-163-031-11	CERAMIC CHIP 0.01MF	50V	D318	8-719-901-33	DIODE 1SS133	
C351	1-106-375-12	MYLAR 0.022MF	10% 250V	D319	8-719-901-33	DIODE 1SS133	
C352	1-106-375-12	MYLAR 0.022MF	10% 250V	D320	8-719-901-33	DIODE 1SS133	
C353	1-163-063-00	CERAMIC CHIP 0.022MF	10% 50V				
C354	1-124-910-11	ELECT 47MF	20% 50V				
C357	1-163-377-11	CERAMIC CHIP 100PF	5% 50V				
C358	1-124-917-11	ELECT 33MF	20% 50V				
C359	1-163-103-00	CERAMIC CHIP 27PF	5% 50V				

B

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
D331	8-719-901-33	DIODE 1SS133		R312	1-249-409-11	CARBON	220 5% 1/4W
D332	8-719-901-33	DIODE 1SS133		R313	1-216-081-00	METAL GLAZE	22K 5% 1/10W
D333	8-719-901-33	DIODE 1SS133		R314	1-216-182-91	METAL GLAZE	220 5% 1/8W
D350	8-719-109-89	DIODE RD5.6ESB2					
<DELAY LINE>				R315	1-216-031-00	METAL GLAZE	180 5% 1/10W
DL332	1-236-062-11	MODULE, Y DELAY LINE		R316	1-216-031-00	METAL GLAZE	180 5% 1/10W
DL401	1-415-613-11	DELAY LINE, Y		R317	1-216-031-00	METAL GLAZE	180 5% 1/10W
<IC>				R318	1-249-429-11	CARBON	10K 5% 1/4W
IC301	8-759-517-43	IC TDA4580-V7		R319	1-249-409-11	CARBON	220 5% 1/4W
IC302	8-759-980-60	IC TDA8442N3		R320	1-216-198-91	METAL GLAZE	1K 5% 1/8W
IC303	8-759-140-53	IC UPD4053BC		R321	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
IC331	8-759-521-22	IC TDA4650/V4		R322	1-216-049-00	METAL GLAZE	1K 5% 1/10W
IC332	8-759-084-91	IC TDA4661/V2		R328	1-216-311-00	METAL GLAZE	6.8 5% 1/10W
IC1301	1-235-534-11	CONTROL MODULE, PICTURE		R329	1-216-311-00	METAL GLAZE	6.8 5% 1/10W
<COIL>				R330	1-216-311-00	METAL GLAZE	6.8 5% 1/10W
L301	1-408-405-00	INDUCTOR	4.7UH	R331	1-216-001-00	METAL GLAZE	10 5% 1/10W
L302	1-408-405-00	INDUCTOR	4.7UH	R332	1-216-184-00	METAL GLAZE	270 5% 1/8W
L331	1-404-554-11	COIL		R333	1-216-121-00	METAL GLAZE	1M 5% 1/10W
L336	1-404-554-11	COIL		R334	1-216-073-00	METAL GLAZE	10K 5% 1/10W
L338	1-408-409-00	INDUCTOR	10UH				
L1301	1-408-425-00	INDUCTOR	220UH	R335	1-247-852-11	CARBON	7.5K 5% 1/4W
L1302	1-408-419-00	INDUCTOR	68UH	R336	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
<TRANSISTOR>				R337	1-216-184-00	METAL GLAZE	270 5% 1/8W
Q303	8-729-920-74	TRANSISTOR 2SC2412K-QR		R338	1-216-001-00	METAL GLAZE	10 5% 1/10W
Q305	8-729-901-06	TRANSISTOR DTA144EK		R339	1-216-033-00	METAL GLAZE	220 5% 1/10W
Q306	8-729-119-78	TRANSISTOR 2SC2785-HFE		R341	1-216-031-00	METAL GLAZE	180 5% 1/10W
Q311	8-729-920-74	TRANSISTOR 2SC2412K-QR		R342	1-216-041-00	METAL GLAZE	470 5% 1/10W
Q312	8-729-920-74	TRANSISTOR 2SC2412K-QR		R344	1-216-089-91	METAL GLAZE	47K 5% 1/10W
Q313	8-729-920-74	TRANSISTOR 2SC2412K-QR		R346	1-216-202-00	METAL GLAZE	1.5K 5% 1/8W
Q316	8-729-920-74	TRANSISTOR 2SC2412K-QR		R347	1-216-073-00	METAL GLAZE	10K 5% 1/10W
Q330	8-729-216-22	TRANSISTOR 2SA1162-G		R348	1-216-089-91	METAL GLAZE	47K 5% 1/10W
Q331	8-729-901-00	TRANSISTOR DTC124EK		R354	1-216-033-00	METAL GLAZE	220 5% 1/10W
Q332	8-729-216-22	TRANSISTOR 2SA1162-G		R355	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
Q333	8-729-216-22	TRANSISTOR 2SA1162-G		R356	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
Q334	8-729-920-74	TRANSISTOR 2SC2412K-QR		R357	1-216-033-00	METAL GLAZE	220 5% 1/10W
Q335	8-729-920-74	TRANSISTOR 2SC2412K-QR		R358	1-216-033-00	METAL GLAZE	220 5% 1/10W
Q381	8-729-901-00	TRANSISTOR DTC124EK		R359	1-216-089-91	METAL GLAZE	47K 5% 1/10W
Q382	8-729-920-74	TRANSISTOR 2SC2412K-QR		R360	1-216-089-91	METAL GLAZE	47K 5% 1/10W
Q1301	8-729-901-00	TRANSISTOR DTC124EK		R361	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
Q1305	8-729-920-74	TRANSISTOR 2SC2412K-QR		R363	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
Q1306	8-729-920-74	TRANSISTOR 2SC2412K-QR		R364	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
<RESISTOR>				R365	1-216-047-00	METAL GLAZE	820 5% 1/10W
JR385	1-216-206-00	METAL GLAZE	2.2K 5% 1/8W	R366	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
JR387	1-216-295-00	METAL GLAZE	0 5% 1/10W	R367	1-216-033-00	METAL GLAZE	220 5% 1/10W
R301	1-249-409-11	CARBON	220 5% 1/4W	R370	1-216-033-00	METAL GLAZE	220 5% 1/10W
R302	1-249-409-11	CARBON	220 5% 1/4W	R372	1-216-023-00	METAL GLAZE	82 5% 1/10W
R303	1-249-409-11	CARBON	220 5% 1/4W	R376	1-249-429-11	CARBON	10K 5% 1/4W
R304	1-249-409-11	CARBON	220 5% 1/4W	R377	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R305	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R378	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R307	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R379	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R308	1-216-296-00	METAL GLAZE	0 5% 1/8W	R380	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R309	1-216-025-00	METAL GLAZE	100 5% 1/10W	R381	1-216-093-00	METAL GLAZE	68K 5% 1/10W
R310	1-216-025-00	METAL GLAZE	100 5% 1/10W	R382	1-216-105-00	METAL GLAZE	220K 5% 1/10W
R311	1-216-025-00	METAL GLAZE	100 5% 1/10W	R383	1-216-115-00	METAL GLAZE	560K 5% 1/10W
				R384	1-216-029-00	METAL GLAZE	150 5% 1/10W
				R385	1-216-085-00	METAL GLAZE	33K 5% 1/10W
				R386	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
				R387	1-216-049-00	METAL GLAZE	1K 5% 1/10W
				R388	1-216-049-00	METAL GLAZE	1K 5% 1/10W
				R389	1-216-101-00	METAL GLAZE	150K 5% 1/10W
				R390	1-216-025-00	METAL GLAZE	100 5% 1/10W
				R392	1-216-021-00	METAL GLAZE	68 5% 1/10W
				R393	1-216-021-00	METAL GLAZE	68 5% 1/10W
				R394	1-216-021-00	METAL GLAZE	68 5% 1/10W
				R395	1-216-214-00	METAL GLAZE	4.7K 5% 1/8W

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

B F A

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R396	1-216-041-00	METAL GLAZE 470 5%	1/10W	C20	1-126-962-11	ELECT 3.3MF	20% 50V
R398	1-216-081-00	METAL GLAZE 22K 5%	1/10W	C21	1-163-031-11	CERAMIC CHIP 0.01MF	50V
R401	1-216-053-00	METAL GLAZE 1.5K 5%	1/10W	C22	1-163-029-11	CERAMIC CHIP 0.0047MF	50V
R402	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W	C23	1-130-475-00	MYLAR 0.0022MF	5% 50V
R403	1-216-025-00	METAL GLAZE 100 5%	1/10W	C24	1-163-113-00	CERAMIC CHIP 68PF	5% 50V
R404	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W	C25	1-163-113-00	CERAMIC CHIP 68PF	5% 50V
R405	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	C26	1-163-083-00	CERAMIC CHIP 1PF	0.25PF 50V
R406	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W	C27	1-163-083-00	CERAMIC CHIP 1PF	0.25PF 50V
R407	1-216-047-00	METAL GLAZE 820 5%	1/10W	C28	1-163-029-11	CERAMIC CHIP 0.0047MF	50V
R410	1-216-184-00	METAL GLAZE 270 5%	1/8W	C29	1-163-029-11	CERAMIC CHIP 0.0047MF	50V
R412	1-216-053-00	METAL GLAZE 1.5K 5%	1/10W	C30	1-124-034-51	ELECT 33MF	20% 16V
R1301	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	C31	1-163-085-00	CERAMIC CHIP 2PF	0.25PF 50V
R1302	1-216-089-91	METAL GLAZE 47K 5%	1/10W	C32	1-163-113-00	CERAMIC CHIP 68PF	5% 50V
R1303	1-216-089-91	METAL GLAZE 47K 5%	1/10W	C33	1-124-902-00	ELECT 0.47MF	20% 50V
R1304	1-216-097-00	METAL GLAZE 100K 5%	1/10W	C34	1-163-029-11	CERAMIC CHIP 0.0047MF	50V
R1305	1-216-001-00	METAL GLAZE 10 5%	1/10W	C35	1-124-034-51	ELECT 33MF	20% 16V
R1307	1-216-037-00	METAL GLAZE 330 5%	1/10W	C36	1-163-063-00	CERAMIC CHIP 0.022MF	10% 50V
R1308	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	C101	1-124-916-11	ELECT 22MF	20% 50V
R1309	1-216-037-00	METAL GLAZE 330 5%	1/10W	C102	1-126-103-11	ELECT 470MF	20% 16V
<VARIABLE RESISTOR>				C104	1-124-910-11	ELECT 47MF	20% 50V
RV331	1-241-761-11	RES, ADJ, CARBON 1K		C106	1-124-916-11	ELECT 22MF	20% 50V
<CRYSTAL>				C108	1-136-165-00	FILM 0.1MF	5% 50V
X331	1-567-307-11	OSCILLATOR, CRYSTAL		C109	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
X332	1-567-131-00	OSCILLATOR, CRYSTAL		C111	1-124-925-11	ELECT 2.2MF	20% 50V
*****				C115	1-124-925-11	ELECT 2.2MF	20% 50V
*A-1624-008-A	F BOARD, COMPLETE			C127	1-124-122-11	ELECT 100MF	20% 50V
*****				C128	1-124-910-11	ELECT 47MF	20% 50V
<CONNECTOR>				C129	1-124-910-11	ELECT 47MF	20% 50V
F61	*1-580-844-11	PIN, CONNECTOR (POWER)		C138	1-136-165-00	FILM 0.1MF	5% 50V
F62	*1-580-844-11	PIN, CONNECTOR (POWER)		C171	1-163-005-11	CERAMIC CHIP 470PF	10% 50V
<FUSE>				C172	1-163-005-11	CERAMIC CHIP 470PF	10% 50V
F1601 Δ	1-576-231-21	FUSE (H.B.C.) 4A/250V		C177	1-102-074-00	CERAMIC 0.001MF	10% 50V
	1-533-230-11	HOLDER, FUSE; F1601		<CONNECTOR>			
<SWITCH>				A11	*1-565-393-11	CONNECTOR, BOARD TO BOARD	
S1701 Δ	1-571-433-12	SWITCH, PUSH (AC POWER)		A12	*1-565-393-11	CONNECTOR, BOARD TO BOARD	
*****				A13	*1-565-503-11	CONNECTOR, BOARD TO BOARD 12P	
<CAPACITOR>				CN1	1-750-919-11	PIN, CONNECTOR (PC BOARD) 10P	
A-1632-054-A	A BOARD, COMPLETE			<IC>			
*****				IC1	8-759-996-04	IC TDA8341/N6	
1-404-801-11	TRAP, CERAMIC			IC2	8-759-516-81	IC TDA2545A-V4	
<COIL>				IC103	8-759-979-62	IC PCF8574	
L2	1-408-410-00	INDUCTOR 12UH		<TRANSISTOR>			
L3	1-408-406-00	INDUCTOR 5.6UH		Q1	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L4	1-408-407-00	INDUCTOR 6.8UH		Q2	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L6	1-408-397-00	INDUCTOR 1UH		Q7	8-729-216-22	TRANSISTOR 2SA1162-G	
L7	1-408-406-00	INDUCTOR 5.6UH		<CAPACITOR>			
L8	1-408-406-00	INDUCTOR 5.6UH		C9	1-163-029-11	CERAMIC CHIP 0.0047MF	50V
L100	1-410-683-31	INDUCTOR 560UH		C10	1-124-925-11	ELECT 2.2MF	20% 50V
L101	1-408-225-00	INDUCTOR 3.3UH		C11	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
L102	1-408-413-00	INDUCTOR 22UH		C12	1-163-029-11	CERAMIC CHIP 0.0047MF	50V
L107	1-408-397-00	INDUCTOR 1UH		C13	1-163-029-11	CERAMIC CHIP 0.0047MF	50V
C14	1-124-034-51	ELECT 33MF	20% 16V	C14	1-124-034-51	ELECT 33MF	20% 16V
C17	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C17	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C18	1-163-107-00	CERAMIC CHIP 39PF	5% 50V	C18	1-163-107-00	CERAMIC CHIP 39PF	5% 50V
C19	1-126-176-11	ELECT 220MF	20% 10V	C19	1-126-176-11	ELECT 220MF	20% 10V

A C

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q113	8-729-920-74	TRANSISTOR 2SC2412K-QR				<VARIABLE RESISTOR>	
Q114	8-729-920-74	TRANSISTOR 2SC2412K-QR		RV1	1-238-550-11	RES. ADJ. CARBON 100K	
Q115	8-729-920-74	TRANSISTOR 2SC2412K-QR				<TRANSFORMER>	
Q116	8-729-920-74	TRANSISTOR 2SC2412K-QR		T1	1-404-493-00	COIL	
Q125	8-729-900-89	TRANSISTOR DTC144ES		T2	1-404-493-00	COIL	
Q126	8-729-901-06	TRANSISTOR DTA144EK		T5	1-404-493-00	COIL	
		<RESISTOR>				<TUNER>	
JC1	1-216-296-00	METAL GLAZE 0 5% 1/8W		TU101	1-465-611-11	TUNER. ET	
JR230	1-216-295-00	METAL GLAZE 0 5% 1/10W				<IF BLOCK>	
JR252	1-216-296-00	METAL GLAZE 0 5% 1/8W		VIF101	1-466-154-11	IF BLOCK (IFG-389S)	
JR253	1-216-296-00	METAL GLAZE 0 5% 1/8W				*****	
JR255	1-216-296-00	METAL GLAZE 0 5% 1/8W				*A-1638-043-A C BOARD, COMPLETE	
JR256	1-216-296-00	METAL GLAZE 0 5% 1/8W				*****	
JR257	1-216-296-00	METAL GLAZE 0 5% 1/8W				*4-379-160-01 COVER (REAR LID), CV	
JR258	1-216-296-00	METAL GLAZE 0 5% 1/8W				*4-379-167-01 COVER (MAIN), CV	
R9	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W				<CAPACITOR>	
R10	1-216-029-00	METAL GLAZE 150 5% 1/10W		C703	1-102-980-00	CERAMIC 270PF 5% 50V	
R11	1-216-049-00	METAL GLAZE 1K 5% 1/10W		C704	1-102-116-00	CERAMIC 680PF 10% 50V	
R12	1-216-049-00	METAL GLAZE 1K 5% 1/10W		C705	1-102-978-00	CERAMIC 220PF 5% 50V	
R13	1-216-041-00	METAL GLAZE 470 5% 1/10W		C706	1-102-116-00	CERAMIC 680PF 10% 50V	
R15	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W		C707	1-162-116-00	CERAMIC 680PF 10% 2KV	
R16	1-216-045-00	METAL GLAZE 680 5% 1/10W		C708	1-162-114-00	CERAMIC 0.0047MF 2KV	
R17	1-216-077-00	METAL GLAZE 15K 5% 1/10W		C709	1-102-116-00	CERAMIC 680PF 10% 50V	
R18	1-216-043-00	METAL GLAZE 560 5% 1/10W		C710	1-123-947-00	ELECT 10MF 20% 250V	
R19	1-216-049-00	METAL GLAZE 1K 5% 1/10W		C711	1-101-880-00	CERAMIC 47PF 5% 50V	
R20	1-216-045-00	METAL GLAZE 680 5% 1/10W		C712	1-102-980-00	CERAMIC 270PF 5% 50V	
R21	1-216-295-00	METAL GLAZE 0 5% 1/10W		C714	1-124-360-00	ELECT 1000MF 20% 16V	
R22	1-216-093-00	METAL GLAZE 68K 5% 1/10W		C716	1-162-622-11	CERAMIC 330PF 10% 400V	
R23	1-216-031-00	METAL GLAZE 180 5% 1/10W		C717	1-102-114-00	CERAMIC 470PF 10% 50V	
R24	1-216-081-00	METAL GLAZE 22K 5% 1/10W		C718	1-102-114-00	CERAMIC 470PF 10% 50V	
R30	1-216-081-00	METAL GLAZE 22K 5% 1/10W		C719	1-102-114-00	CERAMIC 470PF 10% 50V	
R31	1-216-202-00	METAL GLAZE 1.5K 5% 1/8W				<CONNECTOR>	
R32	1-216-190-00	METAL GLAZE 470 5% 1/8W		C71	*1-506-371-00	PIN, CONNECTOR 2P	
R101	1-216-025-00	METAL GLAZE 100 5% 1/10W		C72	*1-568-881-51	PIN, CONNECTOR 6P	
R105	1-216-079-00	METAL GLAZE 18K 5% 1/10W		C81	*1-568-878-51	PIN, CONNECTOR 3P	
R107	1-216-081-00	METAL GLAZE 22K 5% 1/10W		C82	1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
R108	1-216-079-00	METAL GLAZE 18K 5% 1/10W				<DIODE>	
R110	1-249-429-11	CARBON 10K 5% 1/4W		D701	8-719-110-14	DIODE RD9.1ESB3	
R111	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W		D702	8-719-901-33	DIODE 1SS133	
R118	1-216-085-00	METAL GLAZE 33K 5% 1/10W		D703	8-719-901-33	DIODE 1SS133	
R128	1-216-027-00	METAL GLAZE 120 5% 1/10W		D704	8-719-901-33	DIODE 1SS133	
R129	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W		D705	8-719-901-33	DIODE 1SS133	
R130	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W		D706	8-719-901-33	DIODE 1SS133	
R157	1-216-049-00	METAL GLAZE 1K 5% 1/10W		D707	8-719-901-33	DIODE 1SS133	
R158	1-249-409-11	CARBON 220 5% 1/4W		D708	8-719-901-33	DIODE 1SS133	
R159	1-249-409-11	CARBON 220 5% 1/4W		D709	8-719-901-33	DIODE 1SS133	
R161	1-216-089-91	METAL GLAZE 47K 5% 1/10W		D710	8-719-901-33	DIODE 1SS133	
R162	1-216-095-00	METAL GLAZE 82K 5% 1/10W		D711	8-719-302-43	DIODE EL1Z	
R163	1-216-095-00	METAL GLAZE 82K 5% 1/10W		D713	8-719-901-33	DIODE 1SS133	
R164	1-216-075-00	METAL GLAZE 12K 5% 1/10W					
R165	1-216-075-00	METAL GLAZE 12K 5% 1/10W					
R167	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W					
R168	1-216-089-91	METAL GLAZE 47K 5% 1/10W					
R169	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W					
R193	1-216-073-00	METAL GLAZE 10K 5% 1/10W					
R194	1-216-017-00	METAL GLAZE 47 5% 1/10W					
R195	1-216-017-00	METAL GLAZE 47 5% 1/10W					
R196	1-216-113-00	METAL GLAZE 470K 5% 1/10W					

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

C D

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<JACK>				*****			
J701	Δ 1-526-990-13	SOCKET, PICTURE TUBE		*A-1642-119-A	D BOARD, COMPLETE	*****	
<COIL>				<CAPACITOR>			
L704	1-408-609-41	INDUCTOR 33UH		C002	1-163-205-00	CERAMIC CHIP 0.001MF	5% 50V
<TRANSISTOR>				C003	1-124-925-11	ELECT 2.2MF	20% 50V
Q702	8-729-119-78	TRANSISTOR 2SC2785-HFE		C004	1-124-120-11	ELECT 220MF	20% 16V
Q703	8-729-906-70	TRANSISTOR BF871		C005	1-124-903-11	ELECT 1MF	20% 50V
Q704	8-729-200-17	TRANSISTOR 2SA1091-O		C008	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
Q705	8-729-119-78	TRANSISTOR 2SC2785-HFE		C009	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
Q706	8-729-906-70	TRANSISTOR BF871		C010	1-124-120-11	ELECT 220MF	20% 16V
Q707	8-729-200-17	TRANSISTOR 2SA1091-O		C011	1-163-031-11	CERAMIC CHIP 0.01MF	5% 50V
Q708	8-729-119-78	TRANSISTOR 2SC2785-HFE		C013	1-136-165-00	FILM 0.1MF	5% 50V
Q709	8-729-906-70	TRANSISTOR BF871		C014	1-136-165-00	FILM 0.1MF	5% 50V
Q710	8-729-200-17	TRANSISTOR 2SA1091-O		C015	1-124-902-00	ELECT 0.47MF	20% 50V
<RESISTOR>				C016	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
R704	1-216-486-00	METAL OXIDE 8.2K 5% 3W F		C017	1-136-165-00	FILM 0.1MF	5% 50V
R705	1-202-824-00	SOLID 3.3K 10% 1/2W		C018	1-163-127-00	CERAMIC CHIP 270PF	5% 50V
R706	1-249-409-11	CARBON 220 5% 1/4W		C019	1-106-383-00	MYLAR 0.047MF	10% 100V
R707	1-249-412-11	CARBON 390 5% 1/4W		C021	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
R708	1-249-401-11	CARBON 47 5% 1/4W		C023	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
R709	1-202-844-00	SOLID 330K 10% 1/2W		C024	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
R710	1-215-465-00	METAL 68K 1% 1/4W		C027	1-124-910-11	ELECT 47MF	20% 50V
R711	1-249-426-11	CARBON 5.6K 5% 1/4W		C030	1-163-038-00	CERAMIC CHIP 0.1MF	25V
R712	1-249-417-11	CARBON 1K 5% 1/4W		C031	1-163-081-00	CERAMIC CHIP 0.22MF	25V
R713	1-215-471-00	METAL 120K 1% 1/4W		C032	1-163-081-00	CERAMIC CHIP 0.22MF	25V
R714	1-216-486-00	METAL OXIDE 8.2K 5% 3W F		C033	1-163-181-00	CERAMIC CHIP 100PF	5% 50V
R715	1-202-824-00	SOLID 3.3K 10% 1/2W		C034	1-124-907-11	ELECT 10MF	20% 50V
R716	1-249-409-11	CARBON 220 5% 1/4W		C251	1-124-903-11	ELECT 1MF	20% 50V
R717	1-249-415-11	CARBON 680 5% 1/4W		C252	1-124-916-11	ELECT 22MF	20% 50V
R718	1-202-814-11	SOLID 33K 20% 1/2W		C253	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
R719	1-249-401-11	CARBON 47 5% 1/4W		C254	1-136-165-00	FILM 0.1MF	5% 50V
R720	1-249-423-11	CARBON 3.3K 5% 1/4W		C255	1-124-636-00	ELECT 3300MF	20% 25V
R721	1-202-842-11	SOLID 220K 20% 1/2W		C261	1-124-903-11	ELECT 1MF	20% 50V
R722	1-202-848-00	SOLID 680K 10% 1/2W		C262	1-124-916-11	ELECT 22MF	20% 50V
R723	1-249-417-11	CARBON 1K 5% 1/4W		C263	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
R724	1-202-846-00	SOLID 470K 20% 1/2W		C264	1-136-165-00	FILM 0.1MF	5% 50V
R725	1-202-838-00	SOLID 100K 20% 1/2W		C265	1-124-564-11	ELECT 4700MF	20% 25V
R726	1-202-824-00	SOLID 3.3K 10% 1/2W		C270	1-130-785-11	MYLAR 0.47MF	10% 100V
R727	1-249-409-11	CARBON 220 5% 1/4W		C274	1-130-785-11	MYLAR 0.47MF	10% 100V
R728	1-216-347-11	METAL OXIDE 0.68 5% 1W F		C501	1-124-927-11	ELECT 4.7MF	20% 50V
R729	1-249-416-11	CARBON 820 5% 1/4W		C502	1-124-927-11	ELECT 4.7MF	20% 50V
R730	1-249-401-11	CARBON 47 5% 1/4W		C503	1-136-204-11	MYLAR 0.015MF	10% 400V
R731	1-249-423-11	CARBON 3.3K 5% 1/4W		C504	1-163-121-00	CERAMIC CHIP 150PF	5% 50V
R732	1-249-415-11	CARBON 680 5% 1/4W		C505	1-137-365-11	FILM 0.0015MF	5% 50V
R733	1-249-415-11	CARBON 680 5% 1/4W		C506	1-106-375-12	MYLAR 0.022MF	10% 250V
R734	1-247-807-31	CARBON 100 5% 1/4W		C507	1-136-171-00	FILM 0.33MF	5% 50V
R735	1-215-493-00	METAL 1M 1% 1/4W		C508	1-106-375-12	MYLAR 0.022MF	10% 250V
R736	1-216-486-00	METAL OXIDE 8.2K 5% 3W F		C509	1-136-165-00	FILM 0.1MF	5% 50V
R737	1-215-485-00	METAL 470K 1% 1/4W		C510	1-161-959-00	CERAMIC 22PF	10% 50V
R739	1-249-417-11	CARBON 1K 5% 1/4W		C511	1-137-413-11	FILM 0.0033MF	10% 100V
<VARIABLE RESISTOR>				C512	1-136-165-00	FILM 0.1MF	5% 50V
RV701	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M		C513	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
RV702	Δ 1-230-619-11	RES, ADJ, METAL GLAZE 110M		C514	1-106-228-00	MYLAR 0.22MF	10% 100V
RV703	1-237-749-11	RES, ADJ, CARBON 2200		C515	1-124-903-11	ELECT 1MF	20% 50V
RV704	1-237-749-11	RES, ADJ, CARBON 2200		C516	1-137-410-11	FILM 0.001MF	10% 100V
				C517	1-124-252-00	ELECT 0.33MF	20% 50V
				C518	1-124-902-00	ELECT 0.47MF	20% 50V
				C519	1-136-171-00	FILM 0.33MF	5% 50V
				C520	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
				C521	1-136-165-00	FILM 0.1MF	5% 50V

D

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
C522	1-124-122-11	ELECT	100MF	20%	50V	C824	1-102-212-00	CERAMIC	820PF	10%	500V
C523	1-137-410-11	FILM	0.001MF	10%	100V						
C524	1-137-367-11	FILM	0.0033MF	5%	50V	C825	1-106-375-12	MYLAR	0.022MF	10%	250V
C525	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	C1601A	1-136-518-12	FILM	0.33MF	20%	300V
C526	1-163-103-00	CERAMIC CHIP	27PF	5%	50V	C1602A	1-136-519-12	FILM	0.47MF	20%	300V
						C1603A	1-164-246-61	CERAMIC	0.0022MF	20%	400V
C527	1-106-220-00	MYLAR	0.1MF	10%	100V	C1605A	1-164-246-61	CERAMIC	0.0022MF	20%	400V
C531	1-124-190-00	ELECT	680MF	10%	25V						
C532	1-124-122-11	ELECT	100MF	20%	50V	C1607A	1-161-964-61	CERAMIC	0.0047MF		250V
C533	1-108-702-11	MYLAR	0.068MF	10%	100V						
C534	1-124-120-11	ELECT	220MF	20%	16V						
								<CONNECTOR>			
C536	1-131-365-00	TANTALUM	10MF	10%	16V	D1	*1-568-881-51	PIN, CONNECTOR 6P			
C537	1-124-903-11	ELECT	1MF	20%	50V	D2	*1-568-882-51	PIN, CONNECTOR 7P			
C538	1-137-410-11	FILM	0.001MF	10%	100V	D11	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR			
C539	1-163-129-00	CERAMIC CHIP	330PF	5%	50V	D12	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR			
C540	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	D18	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)			
C592	1-124-122-11	ELECT	100MF	20%	50V	D21	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR			
C593	1-163-129-00	CERAMIC CHIP	330PF	5%	50V	D22	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR			
C601	1-162-599-12	CERAMIC	0.0047MF		250V	D31	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR			
C602 Δ	1-161-964-61	CERAMIC	0.0047MF		250V	D32	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR			
C603 Δ	1-161-964-61	CERAMIC	0.0047MF		250V	D33	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR			
C604 Δ	1-125-318-11	ELECT(BLOCK)	220MF	20%	400V	D41	*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)			
C605	1-124-510-11	ELECT	220MF	20%	35V	D44	*1-568-881-51	PIN, CONNECTOR 6P			
C606	1-163-137-00	CERAMIC CHIP	680PF	5%	50V	D45	*1-568-881-51	PIN, CONNECTOR 6P			
C607	1-136-177-00	FILM	1MF	5%	50V	D51	*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)			
C608	1-124-927-11	ELECT	4.7MF	20%	50V	D62 Δ	*1-565-395-11	PIN, CONNECTOR 3P			
C611	1-128-571-11	ELECT	56MF	20%	50V	D65 Δ	1-508-765-11	PIN, CONNECTOR (5MM PITCH) 3P			
C612	1-137-410-11	FILM	0.001MF	10%	100V	D66 Δ	1-508-786-11	PIN, CONNECTOR (5MM PITCH) 2P			
C613	1-136-539-11	FILM	0.0022MF	3%	2KV	D82	1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P			
C614	1-102-030-00	CERAMIC	330PF	10%	500V	D83	1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P			
C615	1-128-142-11	ELECT	1500MF	20%	25V	D84	*1-580-798-11	CONNECTOR PIN (DY) 6P			
C616	1-102-030-00	CERAMIC	330PF	10%	500V	D801	1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P			
C617	1-124-514-11	ELECT	100MF	20%	50V						
C618	1-162-115-00	CERAMIC	330PF	10%	2KV						
C619	1-124-556-11	ELECT	2200MF	20%	16V						
C620	1-136-173-00	FILM	0.47MF	5%	50V						
								<FILTER>			
C621	1-124-347-00	ELECT	100MF	20%	160V	CF001	1-579-126-11	VIBRATOR, CERAMIC			
C622	1-128-320-11	ELECT	2200MF	20%	16V	CF501	1-567-888-11	OSCILLATOR, CERAMIC			
C623	1-124-910-11	ELECT	47MF	20%	50V						
C624	1-124-122-11	ELECT	100MF	20%	50V						
C625	1-124-360-00	ELECT	1000MF	20%	16V						
								<DIODE>			
C626	1-124-907-11	ELECT	10MF	20%	50V	D001	8-719-109-97	DIODE RD6.8ESB2			
C627	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	D003	8-719-901-33	DIODE 1SS133			
C631	1-124-927-11	ELECT	4.7MF	20%	50V	D005	8-719-109-89	DIODE RD5.6ESB2			
C632	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	D006	8-719-982-24	DIODE MTZJ-33A			
C633	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	D007	8-719-109-72	DIODE RD3.9ESB2			
C801	1-126-105-11	ELECT	1000MF	20%	35V	D009	8-719-109-89	DIODE RD5.6ESB2			
C802	1-102-030-00	CERAMIC	330PF	10%	500V	D010	8-719-109-93	DIODE RD6.2ESB2			
C804	1-123-948-00	ELECT	22MF	20%	250V	D011	8-719-109-93	DIODE RD6.2ESB2			
C805	1-162-114-00	CERAMIC	0.0047MF		2KV	D012	8-719-901-33	DIODE 1SS133			
C806	1-136-165-00	FILM	0.1MF	5%	50V	D013	8-719-109-97	DIODE RD6.8ESB2			
C807	1-106-395-00	MYLAR	0.15MF	10%	200V	D015	8-719-109-97	DIODE RD6.8ESB2			
C810	1-123-024-21	ELECT	33MF		160V	D271	8-719-110-31	DIODE RD12ESB2			
C811	1-136-113-00	FILM	2MF	5%	200V	D272	8-719-901-33	DIODE 1SS133			
C812	1-124-634-11	ELECT	1MF	20%	250V	D501	8-719-901-33	DIODE 1SS133			
C813	1-102-212-00	CERAMIC	820PF	10%	500V	D504	8-719-908-03	DIODE GP08D			
C814	1-161-754-00	CERAMIC	0.001MF	10%	2KV	D506	8-719-914-42	DIODE DA204K			
C815	1-136-540-11	FILM	0.82MF	5%	200V	D508	8-719-901-33	DIODE 1SS133			
C817	1-136-591-11	FILM	0.017MF	3%	1.4KV	D509	8-719-901-33	DIODE 1SS133			
C818	1-136-759-11	FILM	0.039MF	10%	630V	D511	8-719-908-03	DIODE GP08D			
C819	1-161-754-00	CERAMIC	0.001MF	10%	2KV	D512	8-719-908-03	DIODE GP08D			
C820	1-136-562-11	MYLAR	0.0082MF	10%	400V	D513	8-719-010-34	DIODE UZ-4.7BSC			
C821	1-162-134-11	CERAMIC	470PF	10%	2KV	D514	8-719-901-33	DIODE 1SS133			
C822	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	D515	8-719-901-33	DIODE 1SS133			
C823	1-136-559-11	MYLAR	0.0047MF	10%	400V	D601	8-719-510-53	DIODE D4SB60L			

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

D

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
D602	8-719-302-43	DIODE EL1Z		L804	1-408-239-00	INDUCTOR 4.7MMH	
D603	8-719-908-03	DIODE GP08D		L805	1-459-907-11	COIL, HORIZONTAL LINEARITY	
D604	8-719-908-03	DIODE GP08D		L806	1-459-087-00	COIL, HCC DUST CORE 3.9MMH	
D605	8-719-908-03	DIODE GP08D		L809	1-420-872-00	COIL, AIR CORE	
D606	8-719-302-43	DIODE EL1Z		L810	1-421-794-21	TRANSFORMER, FERRITE (PMT)	
D607	8-719-302-43	DIODE EL1Z				<IC LINK>	
D608	8-719-300-33	DIODE RU-3AM		PS601 Δ	1-532-984-91	LINK, IC 2.0A	
D609	8-719-982-24	DIODE MTZJ-33A		PS602 Δ	1-532-984-91	LINK, IC 2.0A	
D610	8-719-300-59	DIODE CTU-12S		PS603 Δ	1-532-679-91	LINK, IC 0.6A	
D611	8-719-900-26	DIODE ERD29-08J		PS604 Δ	1-532-984-91	LINK, IC 2.0A	
D612	8-719-300-59	DIODE CTU-12S				<TRANSISTOR>	
D613	8-719-302-43	DIODE EL1Z		Q001	8-729-901-01	TRANSISTOR DTC144EK	
D614	8-719-302-43	DIODE EL1Z		Q002	8-729-901-01	TRANSISTOR DTC144EK	
D616	8-719-109-93	DIODE RD6.2ESB2		Q003	8-729-216-22	TRANSISTOR 2SA1162-G	
D617	8-719-901-33	DIODE 1SS133		Q004	8-729-216-22	TRANSISTOR 2SA1162-G	
D618	8-719-109-89	DIODE RD5.6ESB2		Q005	8-729-901-01	TRANSISTOR DTC144EK	
D619	8-719-982-24	DIODE MTZJ-33A		Q006	8-729-901-01	TRANSISTOR DTC144EK	
D620	8-719-914-42	DIODE DA204K		Q007	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D621	8-719-982-24	DIODE MTZJ-33A		Q008	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D622	8-719-901-33	DIODE 1SS133		Q009	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D623	8-719-901-33	DIODE 1SS133		Q010	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D624	8-719-901-33	DIODE 1SS133		Q251	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D630	8-719-110-39	DIODE RD15ESB1		Q261	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D801	8-719-302-43	DIODE EL1Z		Q271	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D802	8-719-302-43	DIODE EL1Z		Q502	8-729-216-22	TRANSISTOR 2SA1162-G	
D803	8-719-028-72	DIODE RGP02-17EL-6433		Q505	8-729-140-96	TRANSISTOR 2SD774-34	
D804	8-719-908-03	DIODE GP08D		Q506	8-729-140-97	TRANSISTOR 2SB734-34	
D805	8-719-908-03	DIODE GP08D		Q507	8-729-216-22	TRANSISTOR 2SA1162-G	
D806	8-719-945-80	DIODE ERC06-15S		Q598	8-729-216-22	TRANSISTOR 2SA1162-G	
D807	8-719-945-80	DIODE ERC06-15S		Q601	8-729-122-03	TRANSISTOR 2SA1220A-P	
D808	8-719-900-26	DIODE ERD29-08J		Q602	8-729-209-02	TRANSISTOR 2SD1548-LB	
		<IC>		*4-368-683-11	SPRING, TRANSISTOR; Q602		
IC001	8-759-155-72	IC SDA20560-B512		Q603	8-729-122-03	TRANSISTOR 2SA1220A-P	
IC002	8-759-000-47	IC MC14051BCP		Q604	8-729-216-22	TRANSISTOR 2SA1162-G	
IC003	8-759-145-58	IC UPC4558C		Q605	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC005	8-759-191-72	IC SDA2546-5		Q606	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC251	8-759-988-94	IC TDA2050		Q607	8-729-920-92	TRANSISTOR 2SD2096-EF	
	4-200-001-11	HOLDER, IC; IC251		Q608	8-729-920-74	TRANSISTOR 2SC2412K-QR	
	4-201-023-11	SPACER, INSULATING; IC251		Q609	8-729-320-62	TRANSISTOR 2SD789-34	
IC261	8-759-988-94	IC TDA2050		Q801	8-729-920-74	TRANSISTOR 2SC2412K-QR	
	4-200-001-11	HOLDER, IC; IC261		Q804	8-729-016-32	TRANSISTOR 2SC4927-01	
	4-201-023-11	SPACER, INSULATING; IC261		*4-368-683-11	SPRING, TRANSISTOR; Q804		
IC501	8-759-970-73	IC TEA2028B		Q805	8-729-119-80	TRANSISTOR 2SC2688-LK	
IC502	8-759-944-57	IC TDA8170				<RESISTOR>	
	4-200-001-11	HOLDER, IC; IC501		JR1	1-216-296-00	METAL GLAZE 0 5% 1/8W	
IC601	8-759-988-95	IC TEA2260		JR3	1-216-296-00	METAL GLAZE 0 5% 1/8W	
IC604	8-759-510-52	IC TEA7605		JR4	1-216-295-00	METAL GLAZE 0 5% 1/10W	
IC608	8-759-701-79	IC NJM7812FA		JR7	1-216-296-00	METAL GLAZE 0 5% 1/8W	
	*4-368-683-11	SPRING, TRANSISTOR; IC608		R001	1-216-041-00	METAL GLAZE 470 5% 1/10W	
		<COIL>		R002	1-216-041-00	METAL GLAZE 470 5% 1/10W	
L501	1-408-225-00	INDUCTOR 3.3UH		R003	1-216-198-91	METAL GLAZE 1K 5% 1/8W	
L601	1-420-872-00	COIL, AIR CORE		R004	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
L602	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH		R005	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
L603	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH		R006	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
L604	1-410-671-31	INDUCTOR 47UH		R007	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
L605	1-459-585-11	COIL (WITH CORE) (DRUM TYPE)		R008	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
L606	1-412-529-11	INDUCTOR 22UH		R009	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
L607	1-410-671-31	INDUCTOR 47UH		R010	1-216-041-00	METAL GLAZE 470 5% 1/10W	
L801	1-459-087-00	COIL, HCC DUST CORE 3.9MMH					
L803	1-459-104-00	COIL, WITH CORE					

D

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R012	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R079	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R013	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R080	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R014	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R081	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R015	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R083	1-216-025-00	METAL GLAZE	100 5% 1/10W
R016	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R084	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R017	1-216-689-11	METAL GLAZE	39K 5% 1/10W	R085	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R018	1-216-095-00	METAL GLAZE	82K 5% 1/10W	R086	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R019	1-216-025-00	METAL GLAZE	100 5% 1/10W	R087	1-216-035-00	METAL GLAZE	270 5% 1/10W
R020	1-216-025-00	METAL GLAZE	100 5% 1/10W	R088	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R021	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R093	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R022	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R094	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R024	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R095	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R025	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R096	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R026	1-216-182-91	METAL GLAZE	220 5% 1/8W	R098	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R027	1-216-025-00	METAL GLAZE	100 5% 1/10W	R251	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R028	1-216-025-00	METAL GLAZE	100 5% 1/10W	R252	1-216-039-00	METAL GLAZE	390 5% 1/10W
R029	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R253	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R030	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R254	1-216-357-00	METAL OXIDE	4.7 5% 1W F
R031	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R255	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R032	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R256	1-216-115-00	METAL GLAZE	560K 5% 1/10W
R033	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R257	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R034	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R258	1-215-869-11	METAL OXIDE	1K 5% 1W F
R035	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R259	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R036	1-216-083-00	METAL GLAZE	27K 5% 1/10W	R261	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R037	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	R262	1-216-039-00	METAL GLAZE	390 5% 1/10W
R038	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	R263	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R039	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R264	1-216-357-00	METAL OXIDE	4.7 5% 1W F
R040	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R265	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R041	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R266	1-216-115-00	METAL GLAZE	560K 5% 1/10W
R042	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R267	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R043	1-216-041-00	METAL GLAZE	470 5% 1/10W	R268	1-215-869-11	METAL OXIDE	1K 5% 1W F
R044	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R269	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R045	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R270	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R046	1-216-095-00	METAL GLAZE	82K 5% 1/10W	R271	1-216-045-00	METAL GLAZE	680 5% 1/10W
R047	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R272	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R048	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R273	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R049	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R274	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R050	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R500	1-216-115-00	METAL GLAZE	560K 5% 1/10W
R051	1-216-041-00	METAL GLAZE	470 5% 1/10W	R501	1-216-041-00	METAL GLAZE	470 5% 1/10W
R052	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R502	1-216-033-00	METAL GLAZE	220 5% 1/10W
R053	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R503	1-216-035-00	METAL GLAZE	270 5% 1/10W
R054	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R504	1-249-420-11	CARBON	1.8K 5% 1/4W
R055	1-216-037-00	METAL GLAZE	330 5% 1/10W	R505	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R056	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R506	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R057	1-216-025-00	METAL GLAZE	100 5% 1/10W	R509	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W
R058	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R510	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R059	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R514	1-216-033-00	METAL GLAZE	220 5% 1/10W
R060	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R515	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R061	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R517	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R062	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R518	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R063	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R519	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R064	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R520	1-216-037-00	METAL GLAZE	330 5% 1/10W
R065	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R521	1-216-025-00	METAL GLAZE	100 5% 1/10W
R066	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R522	1-215-473-00	METAL	150K 1% 1/4W
R067	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R523	1-216-655-11	METAL CHIP	1.5K 0.50% 1/10W
R068	1-216-174-00	METAL GLAZE	100 5% 1/8W	R524	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R069	1-216-174-00	METAL GLAZE	100 5% 1/8W	R526	1-249-409-11	CARBON	220 5% 1/4W F
R070	1-216-198-91	METAL GLAZE	1K 5% 1/8W	R527	1-216-679-11	METAL CHIP	15K 0.50% 1/10W
R071	1-216-198-91	METAL GLAZE	1K 5% 1/8W	R528	1-216-031-00	METAL GLAZE	180 5% 1/10W
R072	1-216-222-00	METAL GLAZE	10K 5% 1/8W	R529	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R073	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R530	1-249-448-11	CARBON	1.2 5% 1/4W F
R075	1-216-041-00	METAL GLAZE	470 5% 1/10W	R531	1-216-099-00	METAL GLAZE	120K 5% 1/10W
R076	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R532	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R078	1-216-198-91	METAL GLAZE	1K 5% 1/8W				

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

KV-X2141D/X2541D/X2941D
RM-816

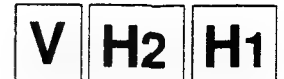
D

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R533	1-216-295-00	METAL GLAZE	0 5% 1/10W	R634	1-216-430-11	METAL OXIDE	390 5% 1W F
R534	1-216-119-00	METAL GLAZE	820K 5% 1/10W	R635	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R535	1-249-749-00	CARBON	2.2M 5% 1/4W	R636	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R536	1-216-129-00	METAL GLAZE	2.2M 5% 1/10W	R643	1-217-189-21	WIREWOUND	0.12 5% 2W F
R537	1-216-083-00	METAL GLAZE	27K 5% 1/10W	R651	1-216-025-00	METAL GLAZE	100 5% 1/10W
R538	1-216-101-00	METAL GLAZE	150K 5% 1/10W	R653	1-205-758-11	WIREWOUND	100 10% 10W F
R539	1-216-101-00	METAL GLAZE	150K 5% 1/10W	R802	1-249-443-11	CARBON	0.47 5% 1/4W F
R540	1-216-013-00	METAL GLAZE	33 5% 1/10W	R805	1-249-448-11	CARBON	1.2 5% 1/4W F
R541	1-216-091-00	METAL GLAZE	56K 5% 1/10W	R806	1-216-093-00	METAL GLAZE	68K 5% 1/10W
R542	1-216-308-00	METAL GLAZE	4.7 5% 1/10W	R807	1-217-778-11	FUSIBLE	1K 5% 1W F
R543	1-249-451-11	CARBON	2.2 5% 1/4W	R809	1-202-821-11	SOLID	1.8K 10% 1/2W
R544	1-247-745-11	CARBON	330 5% 1/2W	R810	1-202-818-00	SOLID	1K 10% 1/2W
R545	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R811	1-215-882-00	METAL OXIDE	22 5% 2W F
R546	1-216-083-00	METAL GLAZE	27K 5% 1/10W	R812	1-249-492-11	CARBON	47K 5% 1/2W
R547	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R815	1-215-884-11	METAL OXIDE	47 5% 2W F
R548	1-216-349-00	METAL OXIDE	1 5% 1W F	R816	1-215-868-00	METAL OXIDE	680 5% 1W F
R549	1-216-454-11	METAL OXIDE	390 5% 2W F	R817	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R550	1-216-095-00	METAL GLAZE	82K 5% 1/10W	R820	1-249-403-11	CARBON	68 5% 1/4W
R551	1-216-129-00	METAL GLAZE	2.2M 5% 1/10W	R821	1-247-725-11	CARBON	10K 5% 1/4W F
R553	1-215-869-11	METAL OXIDE	1K 5% 1W	R822	1-217-778-11	FUSIBLE	1K 5% 1W F
R554	1-216-037-00	METAL GLAZE	330 5% 1/10W	R825	1-216-345-11	METAL OXIDE	0.47 5% 1W F
R555	1-216-129-00	METAL GLAZE	2.2M 5% 1/10W	R826	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R556	1-216-025-00	METAL GLAZE	100 5% 1/10W	R827	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R557	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R828	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R558	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R829	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W
R559	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	R831	1-249-451-11	CARBON	2.2 5% 1/4W
R560	1-216-037-00	METAL GLAZE	330 5% 1/10W	R1601 Δ	1-246-513-75	CARBON	47K 5% 1/4W
R561	1-216-107-00	METAL GLAZE	270K 5% 1/10W	R1602 Δ	1-244-945-91	CARBON	1M 5% 1/2W
R570	1-216-045-00	METAL GLAZE	680 5% 1/10W	R1603 Δ	1-217-328-11	WIREWOUND	2.7 10% 7W F
R591	1-216-047-00	METAL GLAZE	820 5% 1/10W	R1604	1-249-465-11	CARBON	47K 5% 1/4W
R592	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R5501	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R593	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R5503	1-216-001-00	METAL GLAZE	10 5% 1/10W
R594	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W	R5504	1-216-121-00	METAL GLAZE	1M 5% 1/10W
R597	1-216-041-00	METAL GLAZE	470 5% 1/10W	R5505	1-216-001-00	METAL GLAZE	10 5% 1/10W
R598	1-215-901-00	METAL OXIDE	33K 5% 2W F	R1605A Δ	1-218-265-21	METAL GLAZE	8.2M 5% 1W
R600	1-249-381-11	CARBON	1 5% 1/4W	<VARIABLE RESISTOR>			
R601	1-216-353-00	METAL OXIDE	2.2 5% 1W F	RV501	1-241-628-11	RES. ADJ. CARBON 2.2K	
R603	1-216-469-11	METAL OXIDE	12 5% 3W F	RV502	1-241-630-11	RES. ADJ. CARBON 10K	
R604	1-216-025-00	METAL GLAZE	100 5% 1/10W	RV601	1-241-760-11	RES. ADJ. CARBON 470	
R605	1-216-081-00	METAL GLAZE	22K 5% 1/10W	<SPARK GAP>			
R606	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W	SG801	1-519-422-11	GAP, SPARK	
R607	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	<TRANSFORMER>			
R608	1-216-488-11	METAL OXIDE	18K 5% 3W F	LF1601 Δ	1-421-866-12	LFT	
R609	1-216-007-00	METAL GLAZE	18 5% 1/10W	LF1602 Δ	1-421-776-12	LFT	
R610	1-244-941-00	CARBON	680K 5% 1/2W	LF1603 Δ	1-421-862-11	LFT	
R611	1-216-015-00	METAL GLAZE	39 5% 1/10W	T601 Δ	1-450-037-11	S.R.T	
R612	1-216-049-00	METAL GLAZE	1K 5% 1/10W	T602 Δ	1-424-277-11	TRANSFORMER, TRIGGER PULSE	
R613	1-216-097-00	METAL GLAZE	100K 5% 1/10W	T801	1-437-090-00	HDT	
R614	1-205-758-11	WIREWOUND	100 10% 10W F	T802 Δ	1-439-416-41	TRANSFORMER ASSY, FLYBACK (NX-1604)	
R616	1-216-099-00	METAL GLAZE	120K 5% 1/10W	<THERMISTOR>			
R617	1-216-037-00	METAL GLAZE	330 5% 1/10W	THP601 Δ	1-808-059-32	THERMISTOR, POSITIVE	
R618	1-216-431-11	METAL OXIDE	560 5% 1W F	<POST PIN>			
R619	1-216-073-00	METAL GLAZE	10K 5% 1/10W	TP91	*1-535-084-00	1P TERMINAL PIN	
R620	1-216-081-00	METAL GLAZE	22K 5% 1/10W	*****			
R621	1-216-077-00	METAL GLAZE	15K 5% 1/10W				
R622	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R623	1-216-081-00	METAL GLAZE	22K 5% 1/10W				
R624	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W				
R625	1-215-865-11	METAL OXIDE	220 5% 1W F				
R626	1-216-037-00	METAL GLAZE	330 5% 1/10W				
R628	1-216-001-00	METAL GLAZE	10 5% 1/10W				
R629	1-216-037-00	METAL GLAZE	330 5% 1/10W				
R631	1-216-465-11	METAL OXIDE	27K 5% 2W F				
R633	1-216-049-00	METAL GLAZE	1K 5% 1/10W				



The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
	*1-634-193-11	VM BOARD (KV-X2941D) *****					
		<CAPACITOR>					
C751	1-101-361-00	CERAMIC 150PF	5% 50V	C5	1-124-120-11	ELECT 220MF	20% 16V
C752	1-137-462-11	FILM 0.018MF	5% 100V	C6	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C753	1-106-367-00	MYLAR 0.01MF	10% 400V	C7	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
C757	1-108-692-11	MYLAR 0.01MF	10% 200V	C8	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
C759	1-124-907-11	ELECT 10MF	20% 50V	C9	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
C760	1-124-917-11	ELECT 33MF	20% 50V	C10	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C761	1-101-006-00	CERAMIC 0.047MF	50V	C11	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C762	1-106-367-00	MYLAR 0.01MF	10% 400V	C12	1-163-038-00	CERAMIC CHIP 0.1MF	25V
		<CONNECTOR>		C13	1-163-038-00	CERAMIC CHIP 0.1MF	25V
VM73	*1-568-878-51	PIN, CONNECTOR 3P		C14	1-124-927-11	ELECT 4.7MF	20% 50V
VM88	1-568-878-51	PIN, CONNECTOR 3P		C15	1-124-916-11	ELECT 22MF	20% 50V
		<COIL>		C16	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
L751	1-408-413-00	INDUCTOR 22UH		C17	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
L770	1-410-665-31	INDUCTOR 15UH		C18	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
		<TRANSISTOR>		C26	1-163-038-00	CERAMIC CHIP 0.1MF	25V
Q751	8-729-119-78	TRANSISTOR 2SC2785-HFE		C27	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
Q752	8-729-119-78	TRANSISTOR 2SC2785-HFE		C28	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
Q753	8-729-140-97	TRANSISTOR 2SB734-34		C29	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
Q754	8-729-140-96	TRANSISTOR 2SD774-34		C32	1-163-038-00	CERAMIC CHIP 0.1MF	25V
		<RESISTOR>		C33	1-163-038-00	CERAMIC CHIP 0.1MF	25V
R751	1-249-418-11	CARBON 1.2K 5%	1/4W			<CONNECTOR>	
R752	1-249-426-11	CARBON 5.6K 5%	1/4W	CNV1	*1-565-393-11	CONNECTOR, BOARD TO BOARD	
R753	1-249-414-11	CARBON 560 5%	1/4W	CNV2	*1-565-393-11	CONNECTOR, BOARD TO BOARD	
R754	1-249-434-11	CARBON 27K 5%	1/4W			<DIODE>	
R755	1-247-807-31	CARBON 100 5%	1/4W	D1	8-719-105-91	DIODE RD5.6M-B2	
R756	1-249-419-11	CARBON 1.5K 5%	1/4W	D3	8-719-914-44	DIODE DAP202K	
R757	1-247-807-31	CARBON 100 5%	1/4W	D4	8-719-914-43	DIODE DAN202K	
R758	1-249-413-11	CARBON 470 5%	1/4W	D5	8-719-914-44	DIODE DAP202K	
R760	1-249-414-11	CARBON 560 5%	1/4W	D6	8-719-914-43	DIODE DAN202K	
R761	1-249-429-11	CARBON 10K 5%	1/4W	D7	8-719-105-52	DIODE RD3.6M-B2	
R762	1-247-895-00	CARBON 470K 5%	1/4W	D9	8-719-106-17	DIODE RD6.8M-B2	
R763	1-249-429-11	CARBON 10K 5%	1/4W			<IC>	
R764	1-249-389-11	CARBON 4.7 5%	1/4W F	IC1	8-759-155-78	IC SDA20162-B502	
R765	1-249-389-11	CARBON 4.7 5%	1/4W F	IC2	8-759-045-54	IC SAA5246P/E/M4A	
R766	1-247-753-11	CARBON 1.2K 5%	1/2W	IC3	8-752-356-72	IC CXK5864CP-10LL	
R767	1-247-751-11	CARBON 820 5%	1/2W			<COIL>	
R768	1-215-887-00	METAL OXIDE 150 5%	2W F	L1	1-408-403-00	INDUCTOR 3.3UH	
R769	1-211-791-91	FUSIBLE 220 5%	1/4W F	L2	1-408-407-00	INDUCTOR 6.8UH	
		*****		L3	1-408-407-00	INDUCTOR 6.8UH	
				L4	1-408-407-00	INDUCTOR 6.8UH	
						<IC LINK>	
	*A-1645-022-A	V BOARD, COMPLETE *****		PS1	Δ 1-532-679-91	LINK, IC 0.6A	
		<CAPACITOR>				<TRANSISTOR>	
C1	1-126-101-11	ELECT 100MF	20% 16V	Q1	8-729-900-53	TRANSISTOR DTC114EK	
C2	1-163-038-00	CERAMIC CHIP 0.1MF	25V	Q2	8-729-920-92	TRANSISTOR 2SD2096-EF	
C3	1-124-120-11	ELECT 220MF	20% 16V	Q3	8-729-920-74	TRANSISTOR 2SC2412K-QR	
C4	1-163-077-91	CERAMIC CHIP 0.1MF	50V	Q4	8-729-920-74	TRANSISTOR 2SC2412K-QR	
				Q5	8-729-807-87	TRANSISTOR 2SB1295-UL6	
				Q6	8-729-807-87	TRANSISTOR 2SB1295-UL6	
				Q7	8-729-807-87	TRANSISTOR 2SB1295-UL6	
				Q8	8-729-920-74	TRANSISTOR 2SC2412K-QR	



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<RESISTOR>				R49	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
JR01	1-216-295-00	METAL GLAZE 0 5% 1/10W		R50	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR02	1-216-295-00	METAL GLAZE 0 5% 1/10W		<VARIABLE RESISTOR>			
JR03	1-216-295-00	METAL GLAZE 0 5% 1/10W		RV1	1-241-761-11	RES, ADJ, CARBON 1K	
JR08	1-216-295-00	METAL GLAZE 0 5% 1/10W		<CRYSTAL>			
JR09	1-216-295-00	METAL GLAZE 0 5% 1/10W		X1	1-579-266-31	CRYSTAL VIBRATOR	
JR11	1-216-295-00	METAL GLAZE 0 5% 1/10W		X2	1-579-126-11	VIBRATOR, CERAMIC	
JR14	1-216-296-00	METAL GLAZE 0 5% 1/8W		*****			
JR17	1-216-295-00	METAL GLAZE 0 5% 1/10W		*1-638-745-11	H2 BOARD	*****	
JR18	1-216-296-00	METAL GLAZE 0 5% 1/8W		*4-374-987-01	GUIDE, LIGHT		
JR19	1-216-296-00	METAL GLAZE 0 5% 1/8W		4-381-686-01	BRACKET (B), LIGHT GUIDE		
JR20	1-216-296-00	METAL GLAZE 0 5% 1/8W		<CONNECTOR>			
JR21	1-216-296-00	METAL GLAZE 0 5% 1/8W		H2-2	*1-568-882-51	PIN, CONNECTOR 7P	
JR23	1-216-295-00	METAL GLAZE 0 5% 1/10W		<DIODE>			
JR24	1-216-296-00	METAL GLAZE 0 5% 1/8W		D1651	8-719-948-31	DIODE LD-201VR	
JR25	1-216-296-00	METAL GLAZE 0 5% 1/8W		*4-201-076-01	HOLDER, LED; D1651		
JR26	1-216-296-00	METAL GLAZE 0 5% 1/8W		D1652	8-719-948-31	DIODE LD-201VR	
JR201	1-216-295-00	METAL GLAZE 0 5% 1/10W		*4-201-076-01	HOLDER, LED; D1652		
JR204	1-216-295-00	METAL GLAZE 0 5% 1/10W		D1654	8-719-948-31	DIODE LD-201VR	
JR207	1-216-295-00	METAL GLAZE 0 5% 1/10W		*4-201-076-01	HOLDER, LED; D1654		
JR208	1-216-295-00	METAL GLAZE 0 5% 1/10W		<IC>			
JR211	1-216-295-00	METAL GLAZE 0 5% 1/10W		IC1651	8-741-101-75	IC SBX1610-11	
JR213	1-216-295-00	METAL GLAZE 0 5% 1/10W		<RESISTOR>			
JR219	1-216-296-00	METAL GLAZE 0 5% 1/8W		R1662	1-249-413-11	CARBON 470 5% 1/4W	
JR220	1-216-295-00	METAL GLAZE 0 5% 1/10W		*****			
JR223	1-216-295-00	METAL GLAZE 0 5% 1/10W		*1-638-744-11	H1 BOARD	*****	
R1	1-218-326-11	METAL GLAZE 470 5% 1/2W		<CAPACITOR>			
R3	1-216-049-00	METAL GLAZE 1K 5% 1/10W		C1651	1-102-106-00	CERAMIC 100PF 10% 50V	
R4	1-216-025-00	METAL GLAZE 100 5% 1/10W		C1652	1-102-106-00	CERAMIC 100PF 10% 50V	
R5	1-216-047-00	METAL GLAZE 820 5% 1/10W		C1653	1-102-074-00	CERAMIC 0.001MF 10% 50V	
R6	1-216-001-00	METAL GLAZE 10 5% 1/10W		C1655	1-102-074-00	CERAMIC 0.001MF 10% 50V	
R7	1-216-083-00	METAL GLAZE 27K 5% 1/10W		<CONNECTOR>			
R8	1-216-071-00	METAL GLAZE 8.2K 5% 1/10W		H1-1	*1-568-881-51	PIN, CONNECTOR 6P	
R9	1-216-308-00	METAL GLAZE 4.7 5% 1/10W		H1-4	*1-568-879-11	PIN, CONNECTOR 4P	
R02	1-216-214-00	METAL GLAZE 4.7K 5% 1/8W		H1-02	1-569-473-11	JACK BLOCK, PIN 3P	
R10	1-218-325-11	METAL GLAZE 120 5% 1/4W		H1-05	1-562-837-11	JACK	
R11	1-218-325-11	METAL GLAZE 120 5% 1/4W		H1-23	*1-568-879-11	PIN, CONNECTOR 4P	
R12	1-218-325-11	METAL GLAZE 120 5% 1/4W		H1-43	*1-564-512-11	PLUG, CONNECTOR 9P	
R13	1-216-025-00	METAL GLAZE 100 5% 1/10W		<RESISTOR>			
R14	1-216-001-00	METAL GLAZE 10 5% 1/10W		R1651	1-249-413-11	CARBON 470 5% 1/4W	
R15	1-216-013-00	METAL GLAZE 33 5% 1/10W		R1652	1-249-413-11	CARBON 470 5% 1/4W	
R16	1-216-013-00	METAL GLAZE 33 5% 1/10W		<CONNECTOR>			
R17	1-216-013-00	METAL GLAZE 33 5% 1/10W		H1-1	*1-568-881-51	PIN, CONNECTOR 6P	
R18	1-216-025-00	METAL GLAZE 100 5% 1/10W		H1-4	*1-568-879-11	PIN, CONNECTOR 4P	
R19	1-216-025-00	METAL GLAZE 100 5% 1/10W		H1-02	1-569-473-11	JACK BLOCK, PIN 3P	
R20	1-216-041-00	METAL GLAZE 470 5% 1/10W		H1-05	1-562-837-11	JACK	
R21	1-216-041-00	METAL GLAZE 470 5% 1/10W		H1-23	*1-568-879-11	PIN, CONNECTOR 4P	
R22	1-216-168-00	METAL GLAZE 56 5% 1/8W		H1-43	*1-564-512-11	PLUG, CONNECTOR 9P	
R23	1-216-214-00	METAL GLAZE 4.7K 5% 1/8W		<RESISTOR>			
R24	1-216-055-00	METAL GLAZE 1.8K 5% 1/10W		R1651	1-249-413-11	CARBON 470 5% 1/4W	
R25	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W		R1652	1-249-413-11	CARBON 470 5% 1/4W	
R26	1-216-049-00	METAL GLAZE 1K 5% 1/10W		<CONNECTOR>			
R27	1-216-214-00	METAL GLAZE 4.7K 5% 1/8W		H1-1	*1-568-881-51	PIN, CONNECTOR 6P	
R28	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W		H1-4	*1-568-879-11	PIN, CONNECTOR 4P	
R34	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W		H1-02	1-569-473-11	JACK BLOCK, PIN 3P	
R35	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W		H1-05	1-562-837-11	JACK	
R40	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W		H1-23	*1-568-879-11	PIN, CONNECTOR 4P	
R41	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W		H1-43	*1-564-512-11	PLUG, CONNECTOR 9P	
R42	1-216-049-00	METAL GLAZE 1K 5% 1/10W		<RESISTOR>			
R44	1-216-295-00	METAL GLAZE 0 5% 1/10W		R1651	1-249-413-11	CARBON 470 5% 1/4W	
R46	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W		R1652	1-249-413-11	CARBON 470 5% 1/4W	
R47	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W		<CONNECTOR>			

H1 J

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<SWITCH>							
S1651	1-571-532-21	SWITCH, TACTIL		C1416	1-136-165-00	FILM 0.1MF	5% 50V
S1652	1-571-532-21	SWITCH, TACTIL		C1417	1-124-120-11	ELECT 220MF	20% 16V
S1653	1-571-532-21	SWITCH, TACTIL		C1418	1-163-003-11	CERAMIC CHIP 330PF	10% 50V
*****				C1419	1-163-003-11	CERAMIC CHIP 330PF	10% 50V
*A-1651-063-A J BOARD, COMPLETE				C1425	1-124-902-00	ELECT 0.47MF	20% 50V
*****				C1426	1-124-902-00	ELECT 0.47MF	20% 50V
<CAPACITOR>				C1427	1-163-029-11	CERAMIC CHIP 0.0047MF	50V
C203	1-124-925-11	ELECT 2.2MF	20% 50V	C1428	1-163-029-11	CERAMIC CHIP 0.0047MF	50V
C205	1-124-927-11	ELECT 4.7MF	20% 50V	C1429	1-163-029-11	CERAMIC CHIP 0.0047MF	50V
C206	1-124-925-11	ELECT 2.2MF	20% 50V	C1430	1-163-003-11	CERAMIC CHIP 330PF	10% 50V
C207	1-124-927-11	ELECT 4.7MF	20% 50V	C1431	1-126-529-11	ELECT 0.47MF	20% 50V
C213	1-124-916-11	ELECT 22MF	20% 50V	C1432	1-124-902-00	ELECT 0.47MF	20% 50V
C214	1-106-363-00	MYLAR 0.0068MF	10% 400V	C1433	1-124-122-11	ELECT 100MF	20% 50V
C217	1-106-363-00	MYLAR 0.0068MF	10% 400V	C1436	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C218	1-106-375-12	MYLAR 0.022MF	10% 250V	C1437	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C219	1-106-375-12	MYLAR 0.022MF	10% 250V	C1438	1-106-367-00	MYLAR 0.01MF	10% 400V
C220	1-137-413-11	FILM 0.0033MF	10% 100V	C1439	1-106-367-00	MYLAR 0.01MF	10% 400V
C221	1-137-413-11	FILM 0.0033MF	10% 100V	C1440	1-124-907-11	ELECT 10MF	20% 50V
C222	1-106-385-00	MYLAR 0.056MF	10% 100V	C1441	1-124-907-11	ELECT 10MF	20% 50V
C223	1-106-385-00	MYLAR 0.056MF	10% 100V	C1442	1-136-165-00	FILM 0.1MF	5% 50V
C224	1-106-367-00	MYLAR 0.01MF	10% 400V	C1443	1-136-165-00	FILM 0.1MF	5% 50V
C225	1-136-173-00	FILM 0.47MF	5% 50V	C1444	1-124-910-11	ELECT 47MF	20% 50V
C226	1-136-173-00	FILM 0.47MF	5% 50V	C1445	1-102-824-00	CERAMIC 470PF	5% 50V
C227	1-106-375-12	MYLAR 0.022MF	10% 250V	C1446	1-102-824-00	CERAMIC 470PF	5% 50V
C228	1-137-104-11	FILM 0.033MF	10% 250V	C1501	1-124-927-11	ELECT 4.7MF	20% 50V
C229	1-136-204-11	MYLAR 0.015MF	10% 400V	C1502	1-124-903-11	ELECT 1MF	20% 50V
C230	1-136-204-11	MYLAR 0.015MF	10% 400V	C1503	1-137-410-11	FILM 0.001MF	10% 100V
C231	1-124-902-00	ELECT 0.47MF	20% 50V	C1504	1-124-910-11	ELECT 47MF	20% 50V
C232	1-124-907-11	ELECT 10MF	20% 50V	C1505	1-106-383-00	MYLAR 0.047MF	10% 100V
C233	1-163-005-11	CERAMIC CHIP 470PF	10% 50V	C1507	1-137-413-11	FILM 0.0033MF	10% 100V
C234	1-163-005-11	CERAMIC CHIP 470PF	10% 50V	C1508	1-124-903-11	ELECT 1MF	20% 50V
C235	1-163-005-11	CERAMIC CHIP 470PF	10% 50V	C1509	1-124-903-11	ELECT 1MF	20% 50V
C236	1-163-005-11	CERAMIC CHIP 470PF	10% 50V	C1511	1-124-927-11	ELECT 4.7MF	20% 50V
C237	1-124-902-00	ELECT 0.47MF	20% 50V	C1513	1-163-105-00	CERAMIC CHIP 33PF	5% 50V
C238	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	<CONNECTOR>			
C239	1-126-103-11	ELECT 470MF	20% 16V	CN1401	1-565-838-11	JACK BLOCK, PIN 2P	
C240	1-163-018-00	CERAMIC CHIP 0.0056MF	10% 50V	J1402	1-561-534-41	SOCKET, PIN 21P	
C241	1-163-018-00	CERAMIC CHIP 0.0056MF	10% 50V	J1403	1-561-534-41	SOCKET, PIN 21P	
C242	1-163-033-00	CERAMIC CHIP 0.022MF	50V	J1-41	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P	
C243	1-163-033-00	CERAMIC CHIP 0.022MF	50V	J1-43	1-564-524-11	PLUG, CONNECTOR 9P	
C244	1-163-033-00	CERAMIC CHIP 0.022MF	50V	J1-44	*1-564-527-11	PLUG, CONNECTOR 12P	
C245	1-163-033-00	CERAMIC CHIP 0.022MF	50V	J1-51	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P	
C1401	1-124-907-11	ELECT 10MF	20% 50V	<DIODE>			
C1402	1-126-103-11	ELECT 470MF	20% 16V	D201	8-719-110-14	DIODE RD9.1ESB3	
C1403	1-163-003-11	CERAMIC CHIP 330PF	10% 50V	D202	8-719-110-14	DIODE RD9.1ESB3	
C1404	1-136-165-00	FILM 0.1MF	5% 50V	D205	8-719-110-03	DIODE RD7.5ESB2	
C1405	1-163-029-11	CERAMIC CHIP 0.0047MF	50V	D206	8-719-110-03	DIODE RD7.5ESB2	
C1406	1-136-165-00	FILM 0.1MF	5% 50V	D1401	8-719-110-03	DIODE RD7.5ESB2	
C1407	1-124-910-11	ELECT 47MF	20% 50V	D1403	8-719-110-03	DIODE RD7.5ESB2	
C1408	1-124-122-11	ELECT 100MF	20% 50V	D1404	8-719-110-03	DIODE RD7.5ESB2	
C1409	1-124-916-11	ELECT 22MF	20% 50V	D1405	8-719-110-03	DIODE RD7.5ESB2	
C1410	1-124-907-11	ELECT 10MF	20% 50V	D1406	8-719-110-03	DIODE RD7.5ESB2	
C1411	1-124-907-11	ELECT 10MF	20% 50V	D1407	8-719-921-77	DIODE MTZN-10C	
C1412	1-124-910-11	ELECT 47MF	20% 50V	D1408	8-719-110-14	DIODE RD9.1ESB3	
C1413	1-124-910-11	ELECT 47MF	20% 50V	D1409	8-719-110-14	DIODE RD9.1ESB3	
C1414	1-124-907-11	ELECT 10MF	20% 50V	D1410	8-719-110-14	DIODE RD9.1ESB3	
C1415	1-136-165-00	FILM 0.1MF	5% 50V	D1415	8-719-110-03	DIODE RD7.5ESB2	
				D1418	8-719-110-03	DIODE RD7.5ESB2	
				D1419	8-719-110-03	DIODE RD7.5ESB2	
				D1420	8-719-110-03	DIODE RD7.5ESB2	

J

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
D1421	8-719-110-03	DIODE RD7.5ESB2		R231	1-216-073-00	METAL GLAZE 10K 5%	1/10W
D1422	8-719-110-03	DIODE RD7.5ESB2		R232	1-216-073-00	METAL GLAZE 10K 5%	1/10W
D1423	8-719-110-03	DIODE RD7.5ESB2		R233	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
D1424	8-719-110-03	DIODE RD7.5ESB2		R234	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
D1425	8-719-110-03	DIODE RD7.5ESB2		R235	1-216-295-00	METAL GLAZE 0 5%	1/10W
D1426	8-719-110-03	DIODE RD7.5ESB2		R236	1-216-295-00	METAL GLAZE 0 5%	1/10W
D1501	8-719-046-65	DIODE BA157GP-AMP		R240	1-216-033-00	METAL GLAZE 220 5%	1/10W
D1502	8-719-901-33	DIODE 1SS133		R241	1-216-091-00	METAL GLAZE 56K 5%	1/10W
D1503	8-719-901-33	DIODE 1SS133		R242	1-216-091-00	METAL GLAZE 56K 5%	1/10W
D1504	8-719-901-33	DIODE 1SS133		R243	1-216-075-00	METAL GLAZE 12K 5%	1/10W
D1505	8-719-901-33	DIODE 1SS133		R244	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
D1506	8-719-982-33	DIODE MTZJ-36D		R245	1-216-075-00	METAL GLAZE 12K 5%	1/10W
D1507	8-719-901-33	DIODE 1SS133		R246	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
D1510	8-719-901-33	DIODE 1SS133		R247	1-216-075-00	METAL GLAZE 12K 5%	1/10W
		<IC>		R248	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
IC201	8-759-013-17	IC TDA6200		R249	1-216-075-00	METAL GLAZE 12K 5%	1/10W
IC1401	8-752-032-27	IC CXA1114P		R250	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
IC1402	8-759-946-32	IC TEA2014A		R1400	1-216-295-00	METAL GLAZE 0 5%	1/10W
IC1403	8-759-140-53	IC UPD4053BC		R1401	1-216-023-00	METAL GLAZE 82 5%	1/10W
IC1501	8-759-942-16	IC TEA2031A		R1402	1-216-170-00	METAL GLAZE 68 5%	1/8W
		<TRANSISTOR>		R1403	1-216-089-91	METAL GLAZE 47K 5%	1/10W
Q201	8-729-920-74	TRANSISTOR 2SC2412K-QR		R1404	1-216-178-00	METAL GLAZE 150 5%	1/8W
Q202	8-729-920-74	TRANSISTOR 2SC2412K-QR		R1405	1-249-434-11	CARBON 27K 5%	1/4W
Q1401	8-729-216-22	TRANSISTOR 2SA1162-G		R1407	1-216-113-00	METAL GLAZE 470K 5%	1/10W
Q1402	8-729-920-74	TRANSISTOR 2SC2412K-QR		R1408	1-216-089-91	METAL GLAZE 47K 5%	1/10W
Q1403	8-729-920-74	TRANSISTOR 2SC2412K-QR		R1409	1-216-041-00	METAL GLAZE 470 5%	1/10W
Q1404	8-729-216-22	TRANSISTOR 2SA1162-G		R1410	1-216-089-91	METAL GLAZE 47K 5%	1/10W
		<RESISTOR>		R1411	1-216-041-00	METAL GLAZE 470 5%	1/10W
R201	1-216-079-00	METAL GLAZE 18K 5%	1/10W	R1412	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R202	1-216-206-00	METAL GLAZE 2.2K 5%	1/8W	R1413	1-216-113-00	METAL GLAZE 470K 5%	1/10W
R203	1-216-075-00	METAL GLAZE 12K 5%	1/10W	R1414	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R204	1-216-085-00	METAL GLAZE 33K 5%	1/10W	R1415	1-216-083-00	METAL GLAZE 27K 5%	1/10W
R205	1-216-085-00	METAL GLAZE 33K 5%	1/10W	R1416	1-216-083-00	METAL GLAZE 27K 5%	1/10W
R206	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W	R1417	1-216-023-00	METAL GLAZE 82 5%	1/10W
R207	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W	R1418	1-247-738-11	CARBON 82 5%	1/2W F
R208	1-216-077-00	METAL GLAZE 15K 5%	1/10W	R1419	1-216-295-00	METAL GLAZE 0 5%	1/10W
R209	1-216-081-00	METAL GLAZE 22K 5%	1/10W	R1420	1-216-295-00	METAL GLAZE 0 5%	1/10W
R210	1-216-077-00	METAL GLAZE 15K 5%	1/10W	R1421	1-216-295-00	METAL GLAZE 0 5%	1/10W
R211	1-216-097-00	METAL GLAZE 100K 5%	1/10W	R1422	1-216-025-00	METAL GLAZE 100 5%	1/10W
R212	1-216-081-00	METAL GLAZE 22K 5%	1/10W	R1423	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R213	1-216-077-00	METAL GLAZE 15K 5%	1/10W	R1424	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R214	1-216-033-00	METAL GLAZE 220 5%	1/10W	R1425	1-216-045-00	METAL GLAZE 680 5%	1/10W
R215	1-216-081-00	METAL GLAZE 22K 5%	1/10W	R1426	1-216-025-00	METAL GLAZE 100 5%	1/10W
R216	1-216-081-00	METAL GLAZE 22K 5%	1/10W	R1427	1-216-001-00	METAL GLAZE 10 5%	1/10W
R217	1-216-077-00	METAL GLAZE 15K 5%	1/10W	R1428	1-216-113-00	METAL GLAZE 470K 5%	1/10W
R218	1-216-033-00	METAL GLAZE 220 5%	1/10W	R1429	1-216-113-00	METAL GLAZE 470K 5%	1/10W
R219	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R1430	1-216-170-00	METAL GLAZE 68 5%	1/8W
R220	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R1431	1-216-041-00	METAL GLAZE 470 5%	1/10W
R221	1-216-041-00	METAL GLAZE 470 5%	1/10W	R1432	1-216-041-00	METAL GLAZE 470 5%	1/10W
R222	1-216-041-00	METAL GLAZE 470 5%	1/10W	R1433	1-216-033-00	METAL GLAZE 220 5%	1/10W
R223	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R1434	1-249-393-11	CARBON 10 5%	1/4W F
R224	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R1437	1-249-434-11	CARBON 27K 5%	1/4W
R225	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R1440	1-216-045-00	METAL GLAZE 680 5%	1/10W
R226	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R1441	1-216-045-00	METAL GLAZE 680 5%	1/10W
R227	1-216-033-00	METAL GLAZE 220 5%	1/10W	R1442	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R228	1-216-033-00	METAL GLAZE 220 5%	1/10W	R1443	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R229	1-216-075-00	METAL GLAZE 12K 5%	1/10W	R1444	1-216-033-00	METAL GLAZE 220 5%	1/10W
R230	1-216-079-00	METAL GLAZE 18K 5%	1/10W	R1445	1-216-095-00	METAL GLAZE 82K 5%	1/10W
				R1446	1-216-033-00	METAL GLAZE 220 5%	1/10W
				R1447	1-216-033-00	METAL GLAZE 220 5%	1/10W
				R1448	1-216-025-00	METAL GLAZE 100 5%	1/10W
				R1449	1-216-023-00	METAL GLAZE 82 5%	1/10W
				R1452	1-216-049-00	METAL GLAZE 1K 5%	1/10W
				R1453	1-216-049-00	METAL GLAZE 1K 5%	1/10W

J IFG

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1454	1-216-180-00	METAL GLAZE 180 5%	1/8W		A-1654-005-A	IFG BOARD, COMPLETE *****	
R1455	1-216-180-00	METAL GLAZE 180 5%	1/8W				
R1457	1-216-025-00	METAL GLAZE 100 5%	1/10W				
R1459	1-216-025-00	METAL GLAZE 100 5%	1/10W				
R1460	1-216-053-00	METAL GLAZE 1.5K 5%	1/10W				
					<CAPACITOR>		
R1461	1-216-190-00	METAL GLAZE 470 5%	1/8W	C1	1-163-031-11	CERAMIC CHIP 0.01MF	50V
R1462	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	C2	1-163-031-11	CERAMIC CHIP 0.01MF	50V
R1463	1-216-049-00	METAL GLAZE 1K 5%	1/10W	C3	1-163-031-11	CERAMIC CHIP 0.01MF	50V
R1464	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W	C4	1-163-031-11	CERAMIC CHIP 0.01MF	50V
R1465	1-216-023-00	METAL GLAZE 82 5%	1/10W	C5	1-163-031-11	CERAMIC CHIP 0.01MF	50V
R1466	1-216-033-00	METAL GLAZE 220 5%	1/10W	C6	1-163-031-11	CERAMIC CHIP 0.01MF	50V
R1467	1-216-025-00	METAL GLAZE 100 5%	1/10W	C7	1-124-903-11	ELECT 1MF	20% 50V
R1468	1-216-025-00	METAL GLAZE 100 5%	1/10W	C8	1-124-907-11	ELECT 10MF	20% 50V
R1469	1-216-025-00	METAL GLAZE 100 5%	1/10W	C9	1-130-471-00	MYLAR 0.001MF	5% 50V
R1470	1-216-025-00	METAL GLAZE 100 5%	1/10W	C10	1-163-121-00	CERAMIC CHIP 150PF	5% 50V
R1471	1-216-023-00	METAL GLAZE 82 5%	1/10W	C11	1-163-119-00	CERAMIC CHIP 120PF	5% 50V
R1472	1-216-023-00	METAL GLAZE 82 5%	1/10W	C12	1-136-298-00	FILM 0.0033MF	2% 100V
R1473	1-216-023-00	METAL GLAZE 82 5%	1/10W	C13	1-124-477-11	ELECT 47MF	20% 16V
R1474	1-216-113-00	METAL GLAZE 470K 5%	1/10W	C14	1-124-477-11	ELECT 47MF	20% 16V
R1476	1-216-089-91	METAL GLAZE 47K 5%	1/10W	C15	1-124-477-11	ELECT 47MF	20% 16V
R1477	1-216-089-91	METAL GLAZE 47K 5%	1/10W	C16	1-124-477-11	ELECT 47MF	20% 16V
R1478	1-216-113-00	METAL GLAZE 470K 5%	1/10W	C17	1-124-907-11	ELECT 10MF	20% 50V
R1480	1-216-190-00	METAL GLAZE 470 5%	1/8W	C18	1-106-367-00	MYLAR 0.01MF	10% 400V
R1482	1-216-178-00	METAL GLAZE 150 5%	1/8W	C19	1-106-367-00	MYLAR 0.01MF	10% 400V
R1483	1-216-178-00	METAL GLAZE 150 5%	1/8W	C20	1-124-916-11	ELECT 22MF	20% 50V
R1484	1-216-073-00	METAL GLAZE 10K 5%	1/10W	C21	1-124-916-11	ELECT 22MF	20% 50V
R1485	1-216-073-00	METAL GLAZE 10K 5%	1/10W	C22	1-136-165-00	FILM 0.1MF	5% 50V
R1486	1-216-073-00	METAL GLAZE 10K 5%	1/10W	C23	1-106-228-00	MYLAR 0.22MF	10% 100V
R1487	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	C23	1-136-169-00	FILM 0.22MF	5% 50V
R1488	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	C24	1-124-034-51	ELECT 33MF	20% 16V
R1489	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	C25	1-106-375-12	MYLAR 0.022MF	10% 250V
R1501	1-216-081-00	METAL GLAZE 22K 5%	1/10W	C26	1-106-383-00	MYLAR 0.047MF	10% 100V
R1502	1-216-083-00	METAL GLAZE 27K 5%	1/10W	C27	1-124-903-11	ELECT 1MF	20% 50V
R1503	1-216-113-00	METAL GLAZE 470K 5%	1/10W	C28	1-163-109-00	CERAMIC CHIP 47PF	5% 50V
R1504	1-216-085-00	METAL GLAZE 33K 5%	1/10W	C29	1-124-903-11	ELECT 1MF	20% 50V
R1505	1-216-081-00	METAL GLAZE 22K 5%	1/10W	C30	1-124-903-11	ELECT 1MF	20% 50V
R1506	1-216-113-00	METAL GLAZE 470K 5%	1/10W	C31	1-106-367-00	MYLAR 0.01MF	10% 400V
R1509	1-216-105-00	METAL GLAZE 220K 5%	1/10W	C32	1-130-479-00	MYLAR 0.0047MF	5% 50V
R1510	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W	C33	1-163-081-00	CERAMIC CHIP 0.22MF	5% 25V
R1511	1-216-049-00	METAL GLAZE 1K 5%	1/10W	C34	1-106-228-00	MYLAR 0.22MF	10% 100V
R1512	1-216-073-00	METAL GLAZE 10K 5%	1/10W	C34	1-136-169-00	FILM 0.22MF	5% 50V
R1513	1-216-091-00	METAL GLAZE 56K 5%	1/10W	C35	1-124-907-11	ELECT 10MF	20% 50V
R1514	1-216-049-00	METAL GLAZE 1K 5%	1/10W	C36	1-163-119-00	CERAMIC CHIP 120PF	5% 50V
R1516	1-216-079-00	METAL GLAZE 18K 5%	1/10W	C37	1-124-477-11	ELECT 47MF	20% 16V
R1517	1-216-033-00	METAL GLAZE 220 5%	1/10W	C38	1-124-477-11	ELECT 47MF	20% 16V
R1519	1-216-101-00	METAL GLAZE 150K 5%	1/10W	C39	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
R1520	1-216-111-00	METAL GLAZE 390K 5%	1/10W				
R1521	1-216-214-00	METAL GLAZE 4.7K 5%	1/8W				
R1550	1-216-349-00	METAL OXIDE 1 5%	1W				
R1556	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W				
					<CONNECTOR>		
					IFG-13 *1-565-488-11	CONNECTOR, BOARD TO BOARD 12P	
					<FILTER>		
RV1501	1-241-769-11	RES, ADJ, CARBON 470K		CDA1	1-404-751-11	DISCRIMINATOR, CERAMIC	
RV1502	1-241-630-11	RES, ADJ, CARBON 10K		CDA2	1-404-750-11	DISCRIMINATOR, CERAMIC	
RV1503	1-241-765-11	RES, ADJ, CARBON 22K		SFT1	1-527-840-00	FILTER, CERAMIC	
RV1504	1-241-761-11	RES, ADJ, CARBON 1K		SFT2	1-527-839-00	FILTER, CERAMIC	
RV1505	1-241-769-11	RES, ADJ, CARBON 470K					
					<DIODE>		
RV1506	1-241-765-11	RES, ADJ, CARBON 22K		D3	8-719-914-43	DIODE DAN202K	
RV1507	1-241-759-21	RES, ADJ, CARBON 220					
RV1508	1-241-630-11	RES, ADJ, CARBON 10K					
RV1509	1-241-769-11	RES, ADJ, CARBON 470K					

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

IFG

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<IC>				ACCESSORIES AND PACKING MATERIALS *****			
IC1	8-759-003-90	IC TBA129		4-202-215-11	MANUAL, INSTRUCTION		
IC2	8-759-003-90	IC TBA129		*4-202-613-02	INDIVIDUAL CARTON		
IC3	8-759-030-48	IC TDA6600-2		*4-202-653-01	CUSHION (LOWER) (ASSY)		
IC4	8-759-513-48	IC TDA2595/V9		*4-202-654-01	CUSHION (UPPER) (ASSY)		
<COIL>				*4-396-065-01	BAG, PROTECTION		
L1	1-408-410-00	INDUCTOR	12UH	REMOTE COMMANDER			
L2	1-408-410-00	INDUCTOR	12UH	1-465-796-11	CONTROL UNIT, REMOTE (RM-816)		
L3	1-410-064-11	INDUCTOR	2.7MMH	4-031-670-01	COVER, POCKET (FOR RM-816)		
L4	1-408-421-00	INDUCTOR	100UH				
L5	1-408-421-00	INDUCTOR	100UH				
<TRANSISTOR>							
Q2	8-729-901-00	TRANSISTOR DTC124EK					
Q3	8-729-216-22	TRANSISTOR 2SA1162-G					
Q4	8-729-901-00	TRANSISTOR DTC124EK					
<RESISTOR>							
JR8	1-216-296-00	METAL GLAZE	0	5%	1/8W		
JR10	1-216-296-00	METAL GLAZE	0	5%	1/8W		
R1	1-216-045-00	METAL GLAZE	680	5%	1/10W		
R2	1-216-043-00	METAL GLAZE	560	5%	1/10W		
R3	1-216-043-00	METAL GLAZE	560	5%	1/10W		
R5	1-216-045-00	METAL GLAZE	680	5%	1/10W		
R6	1-216-043-00	METAL GLAZE	560	5%	1/10W		
R7	1-216-043-00	METAL GLAZE	560	5%	1/10W		
R9	1-216-073-00	METAL GLAZE	10K	5%	1/10W		
R11	1-216-095-00	METAL GLAZE	82K	5%	1/10W		
R12	1-216-097-00	METAL GLAZE	100K	5%	1/10W		
R13	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W		
R15	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W		
R16	1-216-097-00	METAL GLAZE	100K	5%	1/10W		
R17	1-216-097-00	METAL GLAZE	100K	5%	1/10W		
R18	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W		
R19	1-216-097-00	METAL GLAZE	100K	5%	1/10W		
R20	1-216-075-00	METAL GLAZE	12K	5%	1/10W		
R22	1-216-099-00	METAL GLAZE	120K	5%	1/10W		
R24	1-216-089-91	METAL GLAZE	47K	5%	1/10W		
R25	1-216-077-00	METAL GLAZE	15K	5%	1/10W		
<VARIABLE RESISTOR>							
RV1	1-241-630-11	RES, ADJ, CARBON 10K					
RV2	1-238-019-11	RES, ADJ, CARBON 47K					
*****				*****			
MISCELLANEOUS *****							
A 1-426-398-11 COIL, DEMAGNETIZATION							
A 1-451-313-21 DEFLECTION YOKE (Y29FXA)							
A 1-452-509-42 NECK ASSY, PICTURE TUBE (NA-308)							
1-544-525-11 SPEAKER							
A 1-690-296-11 CORD,POWER(WITH NOISE FILTER) 2.5A/250V							
V901	A 8-733-831-05 PICTURE TUBE (A68JYL61X)						
*****				*****			